

FINAL REPORT
NORTHERN MADISON ONE RECLAMATION PROJECT
DSL-AMRB 92-005

Prepared for:

Department of State Lands
Abandoned Mine Bureau

Prepared by:

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1.0 INTRODUCTION

Hard rock mining has taken place in Montana since 1862 and was essentially unregulated from a reclamation standpoint for over one hundred years. As a result, thousands of unsecured shafts and adits are located in mining districts throughout the state. There are many hazards associated with these mine openings including, but not limited to, bad air, falling rock and cave-ins. The purpose of the Northern Madison One Reclamation Project was to abate some of these hazards located in four mining districts in southwestern Montana. This project was one of a continuing series of hazardous mine opening closure projects completed by the Montana Abandoned Mine Reclamation Bureau (AMRB).

1.1 SITE DESCRIPTION

The sites included in the Northern Madison One Reclamation Project are located in or near residential or recreational areas, within historic areas, or close to public roads. All mine openings included in this project are considered hazardous to public safety. The shafts involved were deep enough to prevent unaided escape upon entry. Adits were accessible to the curious, exposing dangerous underground workings and unknown hazards.

1.2 SITE LOCATIONS

The hazardous mine openings included in this project are located in four mining districts within Madison County: Sheridan, Tidal Wave, Rochester and Ruby Mountain. The Sheridan and Tidal Wave Mining Districts are located in the Tobacco Root Mountains east of Sheridan and Twin Bridges, Montana. The Rochester Mining District is located west of Twin Bridges and the Ruby Mountain Mining District is located in the Ruby Mountains south of Sheridan, Montana. The Northern Madison One Reclamation Project included: 84 openings at 25 locations in the Sheridan Mining District; 96 openings at 12 locations in the Tidal Wave Mining District; 3 openings at 2 locations in the Rochester Mining District; and, 2 openings at 1 location in the Ruby Mountain Mining District.

Legal descriptions of all sites included in the project are listed in Table 1-1 and their locations are shown on the site maps contained in Appendix A. Each site is keyed on the maps to a unique Problem Area Number (Pa. No.). Table A-1 in Appendix A cross-references the site maps by Pa. No. and Map No. so that individual sites can be easily found on the maps.

TABLE 1-1

NORTHERN MADISON ONE RECLAMATION PROJECT SITE LOCATIONS

PA NO. ¹	COUNTY	MINING DISTRICT	SITE NAME	LEGAL DESCRIPTION
29-071	Madison	Rochester	Shoemaker	T03S R07W S08 SW NW
29-092	Madison	Ruby Mountain	Canyon Campground	T09S R03W S18 N SW
29-157	Madison	Rochester	Ellen Marshall	T03S R07W S33 NW NW
29-276	Madison	Tidal Wave	Moffat	T03S R05W S02 SW SW
29-282	Madison	Tidal Wave	Dry Gulch South	T03S R05W S15 SW NW
29-284	Madison	Tidal Wave	Smith Reservoir	T03S R05W S10 SW NW
29-286	Madison	Tidal Wave	Smith Reservoir South	T03S R05W S09 S10
29-287	Madison	Tidal Wave	Tidal Wave	T03S R05W S28 SE NW
29-288	Madison	Tidal Wave	North Fk Goodrich	T03S R05W S22 NE NE
29-289	Madison	Tidal Wave	SE NW Section 27	T03S R05W S27 SE NW
29-292	Madison	Tidal Wave	Deutschland	T03S R05W S28 SE SE
29-295	Madison	Sheridan	Brandon I	T04S R04W S19 SW SE
29-298	Madison	Sheridan	Standard/Ruby	T04S R04W S11 SE SE
29-299	Madison	Tidal Wave	NW NW Section 28	T03S R05W S28 NW NW
29-301	Madison	Tidal Wave	Deutschland South	T03S R05W S33 NE NE
29-303	Madison	Tidal Wave	SW NE Section 27	T03S R05W S27 SW NE
29-307	Madison	Tidal Wave	Dry Gulch North	T03S R05W S15 NW NW
29-319	Madison	Sheridan	North Fork Antelope Creek	T04S R04W S29 SE SW
29-321	Madison	Sheridan	Sheridan View	T04S R04W S31 NE NW
29-323	Madison	Sheridan	Nash Group	T04S R04W S33 NW SW
29-326	Madison	Sheridan	Antelope Gulch No. 2	T04S R04W S30 N SE
29-327	Madison	Sheridan	Antelope Gulch No. 1	T04S R04W S30 NE SE
29-328	Madison	Sheridan	Roylance	T04S R04W S30 SE SE
29-331	Madison	Sheridan	O'Rourke	T04S R04W S29 NW NW
29-332	Madison	Sheridan	Fort Knox	T04S R04W S29 NW NW
29-345	Madison	Sheridan	Geel	T04S R03W S31 NW NE
29-364	Madison	Sheridan	Jane & Nash	T04S R04W S33 SE SW
29-440	Madison	Sheridan	SE SE Section 18	T04S R04W S18 SE SE
29-441	Madison	Sheridan	Union	T04S R05W S03 SE NE
29-451	Madison	Sheridan	Buckeye	T04S R04W S20 W SW
29-453	Madison	Sheridan	Brandon II	T04S R04W S19 NE SE
29-456	Madison	Sheridan	Flamm Ranch #2	T04S R04W S20 NE SW
29-457	Madison	Sheridan	Rodewald Ranch #1	T04S R05W S13 NW SE
29-458	Madison	Sheridan	Rodewald Ranch #2	T04S R05W S13 SE SE
29-463	Madison	Sheridan	Nuggett Creek	T03S R05W S35 SE SE
29-465	Madison	Sheridan	Whiskey Jack	T03S R05W S34 NW SE
29-466	Madison	Sheridan	Kentucky	T03S R05W S34 NW SW
29-467	Madison	Sheridan	Brimstone	T03S R05W S34 E SW
29-470	Madison	Sheridan	Wet Georgia Gulch	T03S R05W S35 SW NE
29-474	Madison	Sheridan	Vanmeter	T03S R05W S35 NW S26SW

¹ The Pa. No. denotes the AMRB Problem Area Number



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1.3 PROJECT OBJECTIVES

The Northern Madison One Reclamation Project was designed and executed with the intent of eliminating accidental or unauthorized entry to mine openings that exposed unknown hazards at a number of abandoned hard rock mines. Sites were nominated for inclusion into the project based on the AMRB's non-coal inventory, a follow-up field inventory, and landowner consent. Backfilling was the preferred reclamation option for closing hazardous adits and shafts. However, many landowners did not want permanent closure of their abandoned mine openings. Alternative methods such as steel grates, culverts, adit doors, and fences were utilized, at the landowner or claimant's request, to preserve access to specific mine openings.

1.4 MINING DISTRICT HISTORIES

Prospecting in the Sheridan, Tidal Wave, Rochester and Ruby Mountain Mining Districts began in the early 1860's when goldbearing gravels were discovered in Alder Gulch near Virginia City, Montana. Shortly after the discovery of placer deposits in Alder Gulch, lode deposits were discovered and mills were in operation to process the ores. The mineral deposits in the area were generally discovered in quartz veins and replacement deposits in gneiss and granitic rocks.

The early mines of the region were usually shallow oxidized ores that could be easily milled for free gold. Shallow lode deposits were depleted by the mid 1870's. The primitive machinery of the early gold mining era was unable to process the more complex ores associated with deeper veins. Larger mining operations were suspended until the completion of the Northern Pacific Railroad from Whitehall to Alder in 1901 which made it possible to ship low grade ore to smelters for processing. The largest deposit of gold in this area was discovered in the early 1860's near the head of Bear Gulch and Wisconsin Creek. This area yielded a total of approximately 13,000 ounces of gold. Related mineralized zones were also discovered near Upper Boulder Lake, Lakeshore Mountain and Mount Jackson.

With the depletion of placer deposits and larger lode deposits, mining activity has generally been limited to small-scale operations. This was especially true during the depression of the 1930's, when many subsistence level operations were active. Current mining activities in the region continue to be small-scale operations.

2.0 PROJECT PLANNING AND CONSTRUCTION

The following people/firms have contributed to the coordination, design, execution, and inspection of the Northern Madison One Reclamation Project:

Project Coordination & Design: Huntingdon, Chen-Northern Inc.

Engineering Plan Preparation: Huntingdon, Chen-Northern Inc.

Contractor: Scott Construction Inc.

Quality Control Inspection: Huntingdon, Chen-Northern Inc.
 Joe Murphy, Project Inspector
 Jeremiah B. Bowser, P.E., Project Engineer

AMRB Project Manager: Joel Chavez

3.0 CHRONOLOGICAL LISTING OF EVENTS

Construction activities related to the Northern Madison One Reclamation Project commenced on October 20, 1992 and continued until winter shutdown on November 19, 1992. Construction activities resumed on June 1, 1993 until completion on September 3, 1993. The contractor performed all construction activities according to contract specifications and within the contract period. The following section describes the sequence of events for the project.

3.1 PRE-BID CONFERENCE

A pre-bid conference was held on Tuesday, July 21, 1992 at the Montana Department of State Lands in Helena. A slide show was presented to acquaint prospective bidders with site conditions since it was not practical for most contractors to visit each site. The slide presentation included a narrative describing site access and construction considerations for specified reclamation.

3.2 PROJECT BIDS

Montana Department of State Lands personnel publicly opened bids for the Northern Madison One Reclamation Project on July 30, 1992. The three lowest bids are presented below. Complete bid tabulation results are presented as Appendix B.

♦	Scott Construction Inc.	\$ 196,974.90
♦	L.R. Huckaba Ranch Inc.	\$ 209,930.00
♦	Coleman Construction Inc.	\$ 210,759.90

3.3 PROJECT CHRONOLOGY

The Northern Madison One Reclamation Project was completed during the fall of 1992 and the summer of 1993 within the contract period. The following chronology presents the sequence of events that led to completion of the project.

Notice of Award:	August 4, 1992
Notice to Proceed:	September 18, 1992
Construction Start-up:	October 20, 1992
Winter Shut-down:	November 19, 1992
Spring Start-up:	June 1, 1993
Certificate of Completion:	November 2, 1993
Final Inspection:	August 12, 1993
Final Acceptance:	September 3, 1993

4.0 PROJECT CONSTRUCTION

4.1 DESCRIPTION OF PROJECT PLAN

The Northern Madison One Reclamation Project was designed and implemented with the intent of eliminating accidental or unauthorized entry to hazardous mine openings. These openings exposed unknown hazards at a number of abandoned hard rock mines.

Backfill was recommended for all mine openings to permanently eliminate the hazards associated with abandoned adit and shaft openings. However, many landowners and/or claimants would not allow closure by backfill so closure methods allowing access to the mine openings (i.e. steel grates, culverts, cable nets, and adit doors) were installed. These alternative closure methods prevent accidental entry but are semi-permanent in nature and are subject to vandalism.

Steel grate systems were installed at seven sites. Owner-provided grates were installed at four locations and the Contractor fabricated and installed specialty grates at three mine openings. Two sites, Union and Canyon Campground, involved the use of a helicopter for transport and placement of grate systems. The Canyon Campground site (29-092) required reclamation work beyond the normal scope of activities for hazardous mine opening projects. The activities completed at this site included access improvements, building demolition, debris removal and disposal and closure of two mine openings. A considerable amount of time was spent at this site to clean all the debris. The United States Forest Service (USFS) identified this site as a priority for closure because of the close proximity of the hazardous mine openings to nearby residents and guest ranches.

Landowners whose hazardous openings were closed with semi-permanent, locking closures were provided with keys to all locks installed on their property. A key receipt form was sent to each claimant to sign and return. Receipts have not been received from all claimants as of this report date. Additional key receipt forms will be forwarded to DSL for inclusion in project files. Appendix C contains a summary of key receipt acknowledgement status and the signed key receipt forms.

4.2 CONTRACTOR'S OPERATION

The project was performed utilizing a crew of two full-time workers with intermittent part-time laborers during the construction phase of the project. Lee Scott was the field superintendent when on-site and Gary Martinsen was the acting supervisor when Lee Scott was absent. Dean Tabbert served as a laborer and equipment operator during the construction project. The following list of equipment was used by Scott Construction to complete the project:

- CAT 931 Track Loader
- 1941 D-7 Caterpillar
- 1986 Case 580 CK Backhoe
- One Ton Four-Wheel Drive Flatbed Truck
- 2 1/2 Ton Stake Truck

4.3 CHANGE ORDERS

Four change orders were issued for this project for a net change in contract price of (-) \$ 15,571.80 or 9.7 % of the original contract total. The contract time period was not affected by the change orders. Appendix D contains copies of the change orders and work directive changes issued for the project.

During the course of construction, 87 changes to the original contract were required. These changes included the following:

- ◆ Additional sites were added to the project and some sites were dropped from the project because of landowner preference and/or natural abatement.
- ◆ Backfill quantities to close adits and shafts at existing sites were adjusted to reflect actual quantities used at each site.
- ◆ The number of hand seal sites was adjusted to reflect access conditions during construction.

- ◆ Owner provided grates were substituted for contractor fabricated grates.
- ◆ Adit culverts were used at nine sites where cable nets had been specified due to unsafe working conditions.
- ◆ Sites specified for adit culverts were closed by backfill for various reasons.
- ◆ Adjusting the total acreage seeded, fertilized and mulched.
- ◆ Eliminating farm fence and signs from the project.
- ◆ Renting the Contractor's equipment at equipment rental rates and other miscellaneous changes.

The most significant change to the project was the deletion of several mine openings because of landowner preference and changes in DSL/AMRB policy on temporary closures.

5.0 PROJECT COSTS

5.1 PAYMENT REQUESTS

The total contract cost for the Northern Madison One Reclamation Project was \$177,772.60. The original bid price was \$196,974.00 compared to the engineers' estimate of \$223,150.08. The primary difference between the original bid price and the contract total was the deletion of numerous mine openings from the project and changes made to specified closure methods at several sites. Project changes are shown on Change Order Nos. 1 through 4 contained in Appendix D. Table 5-1 summarizes the approved payment requests issued for the project. Appendix E contains copies of the pay requests, the Certificate of Completion and Acceptance, and the Affidavit on Behalf of Contractor.

TABLE 5-1

**PAYMENT REQUEST SUMMARY
NORTHERN MADISON ONE RECLAMATION PROJECT**

PAYMENT REQUEST NO.	DATE	AMOUNT
1	12-14-92	63,705.02
2	07-28-93	62,660.92
3	10-14-93	51,503.66
Total Contract Amount		177,772.60

5.2 PROJECT QUANTITIES AND COSTS

Table 5.2 contains a summary of project quantities and costs associated with each method of closure and the average cost of constructing the different closures. Excluding the lump sum items, Table 5-2 shows the most expensive closure method to be contractor-fabricated steel grate systems; the least expensive method is shaft and adit seals.

TABLE 5-2

**SUMMARY OF PROJECT QUANTITIES AND COSTS
NORTHERN MADISON ONE RECLAMATION PROJECT**

CLOSURE METHOD	UNIT¹	QUANTITY	COST	AVERAGE COST
Steel Grate Systems (owner provided)	EA	8	14,000.00	1,750.00
Steel Grate Systems (specialty)	EA	3	5,850.00	1,950.00
Mobilization (Spec. Grates Union Site)	LS	1	750.00	NA
Adit Culverts	EA	23	32,200.00	1,400.00
Masonry Doors	EA	3	3,600.00	1,200.00
Shaft & Adit Seals	EA	48	20,400.00	425.00
Shaft & Adit Closures (97 sites)	CY	7,655	64,684.75	666.85
Cable Net	EA	1	800.00	800.00
Canyon Campground Demolition	LS	1	7,500.00	NA
Debris Cleanup	LS	1	4,500.00	NA
Seed/Fertilize/Mulch	LS	1	2,250.00	NA

¹ Unit abbreviations: EA = each; CY = cubic yard; LF = lineal foot; LS = lump sum; EQ = equipment rental rates

5.3 COST ANALYSIS

Table 5-3 presents a cost analysis of project costs. Along with construction costs, this summary includes engineering costs such as site discovery, ownership determination, preparation of the environmental assessment, closure design, bid package preparation, construction inspection, and construction administration.

TABLE 5-3

COST ANALYSIS

NORTHERN MADISON ONE RECLAMATION PROJECT

ENGINEERING	
Site Discovery, Ownership Determination, and Inventory	\$ 37,139.95
Grant Narrative and Environmental Assessment Preparation	\$ 3,186.90
Closure Design, Bid Package Preparation, and Bid Administration	\$ 20,957.76
Construction Inspection, Administration, and Final Report Preparation	\$ 45,909.67
TOTAL ENGINEERING FEE	\$ 107,194.28
TOTAL CONSTRUCTION COST	\$ 177,772.60
TOTAL PROJECT COST	\$ 284,966.88
Total Engineering Fee/Total Project Cost	37.6%
Total Construction Cost/Total Project Cost	62.4%
Construction Inspection Cost/Total Construction Cost	25.8%
Engineering Design and Bid Package Preparation/Total Construction Cost	11.8%
Total Number of Mine Openings Inventoried	572
Total Number of Mine Openings Closed	186
AVERAGE CONSTRUCTION CLOSURE COST PER MINE OPENING	\$ 955.77
ACTUAL CLOSURE COST PER MINE OPENING ¹	\$ 1,309.68

1 Actual closure costs include both engineering and construction expenses. Engineering expenses were adjusted to reflect only those costs incurred for the 186 mine openings included in the construction project. This adjustment was made because 67.5% of those mine openings originally inventoried were dropped due to non-consent for closure by land or mineral owners. Project costs included in this adjustment are Site Discovery and Ownership Determination, Grant Narrative and EA Preparation, and Closure Design and Bid Package Preparation. These cost categories were multiplied by 0.325 to derive the actual cost figure.

The total cost to complete the North Madison One Reclamation Project is \$ 284,966.88. The average construction closure cost per mine opening is \$ 955.77. The adjusted average construction closure cost per opening (calculated by subtracting the lump sum site work completed at the Canyon Campground site) is \$ 915.44. The actual closure cost per mine opening which includes the adjusted engineering fee (See footnote, Table 5-3) is \$ 1,309.68.

6.0 PROJECT SUMMARY

6.1 PROJECT RECONCILIATION

Table 6-1 summarizes the differences between the reclamation closures specified in the contract bid document and those actually constructed. Appendix F contains a listing of all the work specified in the contract documents reconciled with the work actually constructed at each site.

TABLE 6-1

**PROJECT RECONCILIATION SUMMARY
NORTHERN MADISON ONE RECLAMATION PROJECT**

CLOSURE METHOD	UNIT ¹	NUMBER SPECIFIED	NUMBER CONSTRUCTED
Steel Grate Systems (owner provided)	EA	1	0
Steel Grate Systems (specialty)	EA	6	3
Adit Culverts	EA	52	23
Masonry Adit Doors	EA	2	0
Shaft and Adit Seals	EA	55	48
Adit & Shaft Closures	CY	5,325	7,655
Farm Fence	LF	2,535	0
Signs	EA	10	0
Cable Nets	EA	10	1

¹ Unit abbreviations: EA = each; CY = cubic yard; LF = lineal foot; miscellaneous or lump sum items such as: equipment rental, debris cleanup, mobilization, seed, fertilize and mulch are not included in this table.

6.2 SITE CONDITIONS AFTER COMPLETION

Joel Chavez, the AMRB Project Manager, and Joe Murphy, Chen-Northern's project inspector, visited a portion of the sites for final inspection and acceptance prior to final project completion. Sites included in this final inspection were selected so that a representative cross section of the closure methods constructed were visited. The closures completed during the project were constructed in general accordance with specifications contained in the Standard Construction Specifications for Abandoned Mine Reclamation and the bid document for the project. Final inspection was completed by the AMRB on August 12, 1993.

6.3 MONITORING AND MAINTENANCE

Periodic monitoring for subsidence at sites backfilled during the project should be conducted to ensure adequacy of the fill while the contractor is still in the area. Landowners were offered a "permanent" closure by selecting the backfill option. To minimize any liability to the State, all backfilled mine openings should be inspected on an annual basis for several years following completion of the project. The semi-permanent closures (culverts, cable nets, steel grates, and adit doors) installed during the project may protect against unauthorized entry for a limited time. However, vandalism and damage due to natural causes has been, and will continue to be, a problem with these types of closures. To reduce the public safety hazard associated with damaged closures, a monitoring program should be initiated to inspect all bulkheads and fences periodically. Any human or naturally caused damage should be reported to landowners for subsequent repair. It should be noted that maintenance of steel grates, adit gates and doors, hatches, locks, and bulkheads are the responsibility of individual landowners or claimants.

Revegetation success should be monitored for several years. Vegetation inspections should identify seeding failures on reclaimed sites and document species which are better suited to revegetate reclaimed sites. The presence or absence of weeds should also be documented to satisfy weed control obligations.

7.0 COMMENTS

Several changes in the contract specifications were made between July 1992, when the project was advertised for bid, and November 1992 when the AMRB determined that sites located on Beaverhead National Forest lands should be closed with U.S. Forest Service resources. For this reason, the AMRB directed that these sites be dropped from the project. This in turn prompted the successful bidder (Scott Construction, Inc.) to request payment for anticipated profits for work eliminated from the project. In June 1993, a settlement was negotiated with Scott Construction for loss of anticipated profits.

During the course of this project, several sites were either dropped or changed as a result of new BLM regulations concerning assessment work on unpatented mining claims, AMRB policy on temporary closures, or changed in ownership. The following section discusses these changes. Table 7-1 lists those sites deleted from the project.

TABLE 7-1
SUMMARY OF SITES DELETED
NORTHERN MADISON ONE RECLAMATION PROJECT

PA NO. ¹	COUNTY	MINING DISTRICT	SITE NAME	LEGAL DESCRIPTION
29-281	Madison	Tidal Wave	Smelter Mountain	T03S R0RW S01 NE SE
29-291	Madison	Tidal Wave	NW NW Section 27	T03S R05W S27 NW NW
29-296	Madison	Sheridan	Leiter	T03S R04W S29 NE NE
29-336	Madison	Sheridan	Hunts Claim	T05S R03W S18 NW SW
29-340	Madison	Sheridan	Golden Reef	T05S R03W S07 SW NW
29-446	Madison	Sheridan	Spring Park Creek	T04S R04W S19 SW NE
29-469	Madison	Sheridan	Keynote	T03S R05W S35 SW NE

¹ The Pa. No. denotes the AMRB Problem Area Number

BLM Regulations

At the time contract specifications were written, owners of unpatented mining claims were required to perform \$100.00 annual assessment work to maintain rights on a claim. In August 1993, these regulations were changed to require a cash payment of \$100.00 per claim in lieu of assessment work. In addition, the BLM would require payment for 1993 as well as 1994. This translated into a cash payment of \$200.00 per claim. With these changes on the horizon, AMRB opted to drop sites from the project that called for temporary or accessing bulkheads on unpatented claims with the reasoning that the claims would be released due to costs associated with the new regulations. The AMRB would then be able to provide a permanent closure (backfill) at a later date.

AMRB Policy Changes

Between November 1992 and June 1993, AMRB determined that farm fence closures did not provide adequate protection for public health and safety to warrant the expense of installation, maintenance, and potential future liability. Sites originally specified for fence closures were re-evaluated and either dropped from the project or consent obtained from the claimant to provide a safer, permanent closure.

The two sites which were affected by this policy were the Union and Canyon Campground. Union sites No. 29-441-1 and 2 were changed from fencing to a steel grate closure. Since access to this site was extremely difficult, a DSL helicopter was employed to airlift components of the grate system to the site for assembly and installation. The DSL helicopter was also utilized at Canyon Campground site No. 29-092-2 when it was determined that hand sealing an air shaft would not be possible. The Contractor fabricated a specialty steel grate system for the shaft which was airlifted to the site for installation.

Changes in Ownership

Changes in ownership or control of claims during the period between publication of design specifications and actual construction is an ongoing problem. One change in ownership affected reclamation activities at ten locations and nineteen individual sites in August 1992 after Notice of Award had been issued. Two owners rescinded consent during the same period affecting two locations and twelve sites. Accurate up-to-date information concerning ownership is a labor-intensive, time consuming and therefore expensive endeavor. However, current ownership information is necessary to avoid working at sites that do not have proper landowner consent.

8.0 PHOTOGRAPHIC RECORD

Print and slide photographs were taken at all of the project hazardous mine openings closed before and after construction activities were completed. The photographic record also contains prints and slide photographs of work completed during closure. This photographic record is contained in Appendix G. The photographs are indexed by Pa. No. and a description of the photo can be found in the log presented at the beginning of Appendix G.

APPENDIX A

SITE LOCATION AND ACCESS MAPS NORTHERN MADISON ONE RECLAMATION PROJECT

TABLE A-1**ACCESS MAP CROSS-REFERENCE
NORTHERN MADISON ONE RECLAMATION PROJECT**

PA NO.	MAP NO.	PA NO.	MAP NO.
29-071	2	29-327	18,21
29-092	15	29-328	18,21
29-157	2	29-331	18,21
29-276	3	29-332	18,21
29-282	4,6	29-345	23
29-284	4,5	29-364	22
29-286	4,5	29-440	18,20
29-287	8,9	29-441	10,13
29-288	4,7	29-451	18,20
29-289	10,11	29-453	18,20
29-292	10,12	29-456	18
29-295	18,20	29-457	18,19
29-298	17	29-458	18,19
29-299	8,9	29-463	10
29-301	10,12	29-465	10,13
29-303	10,11	29-466	10,13
29-307	4,6	29-467	10,13
29-319	18	29-470	10,14
29-321	18	29-474	10,14
29-323	22		
29-326	18,21		



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

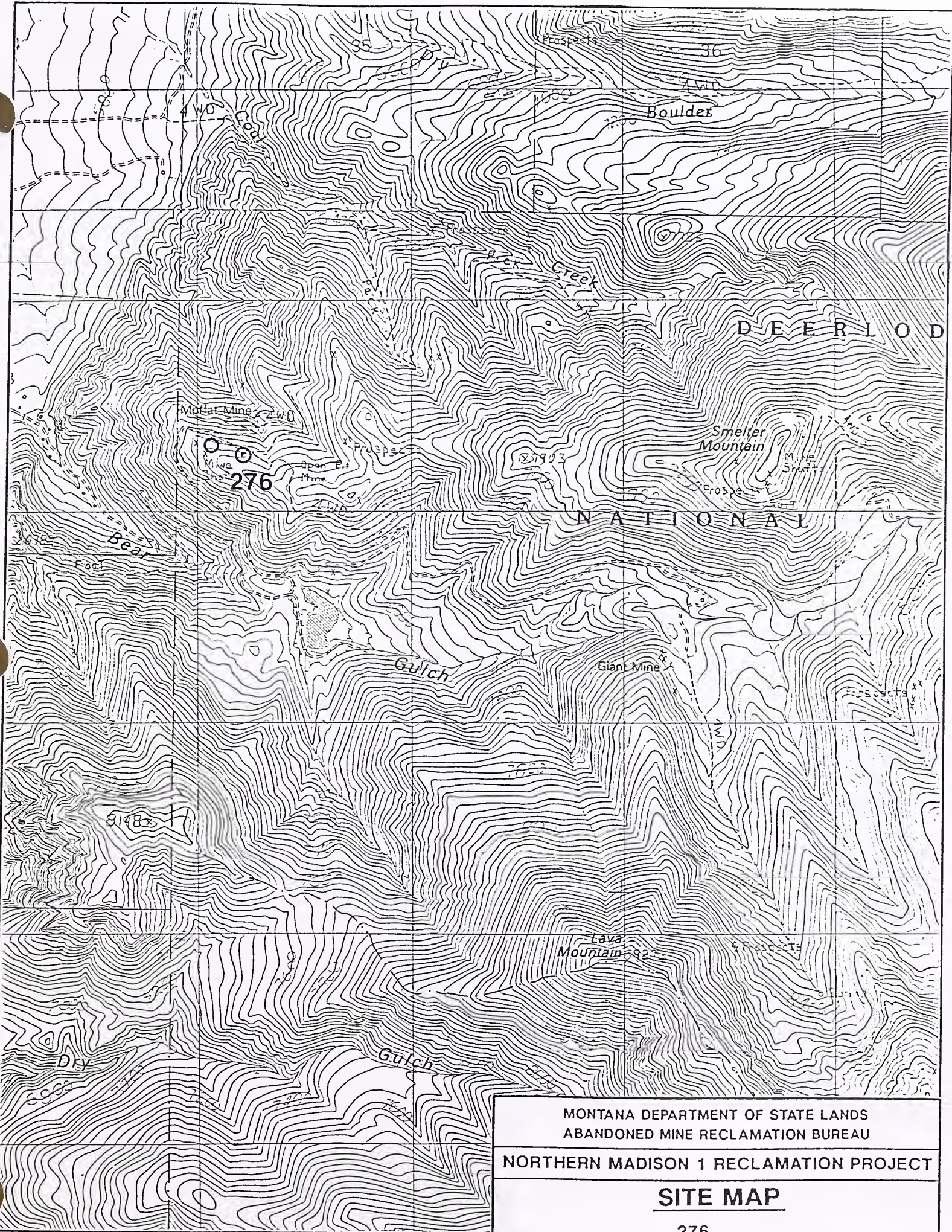
SITE MAP

071, 157

Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

MAP No.
2



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

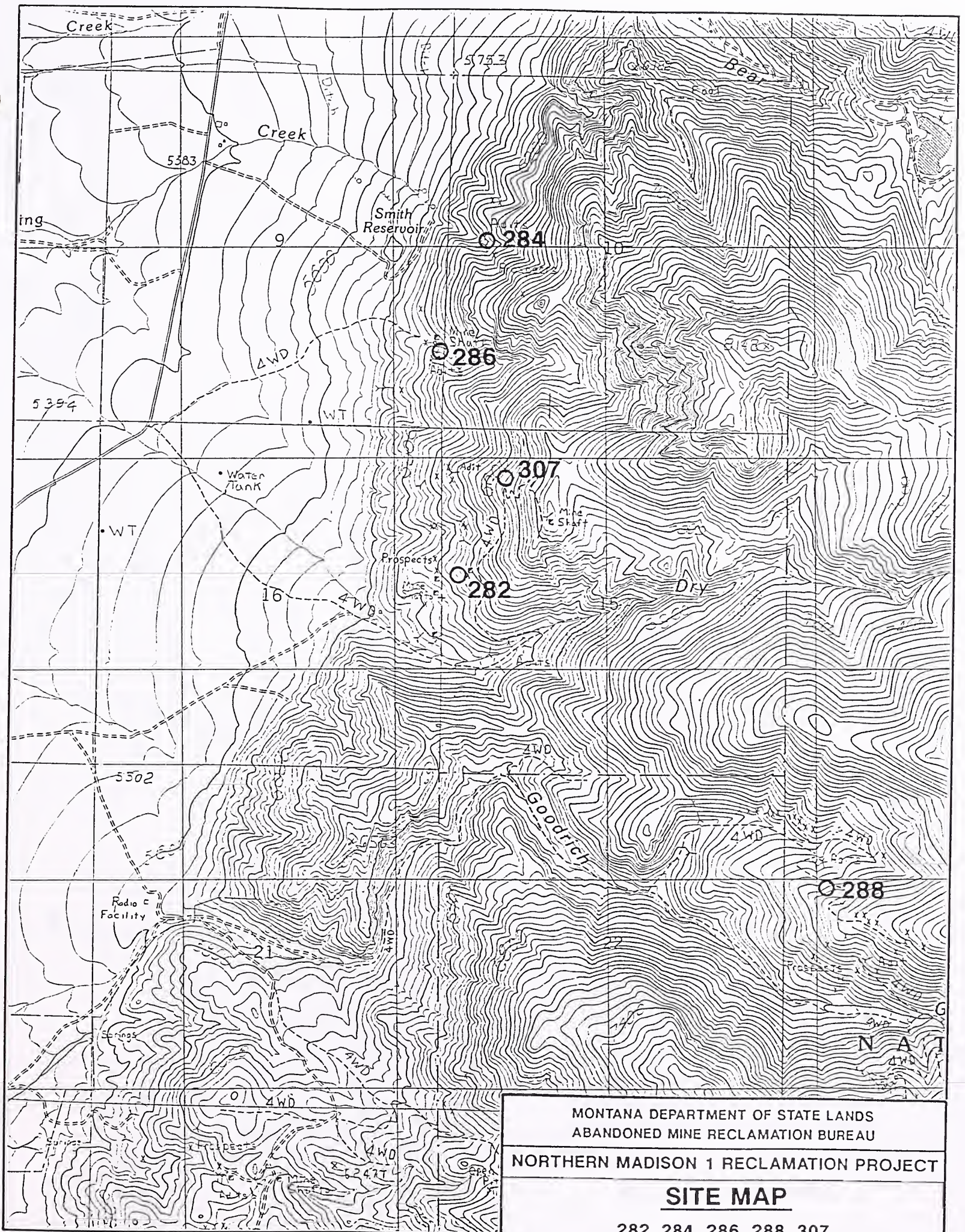
SITE MAP

276

Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

MAP No.
3



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

SITE MAP

282, 284, 286, 288, 307

Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

MAP No.
4

Smith Reservoir

284

286

100

MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

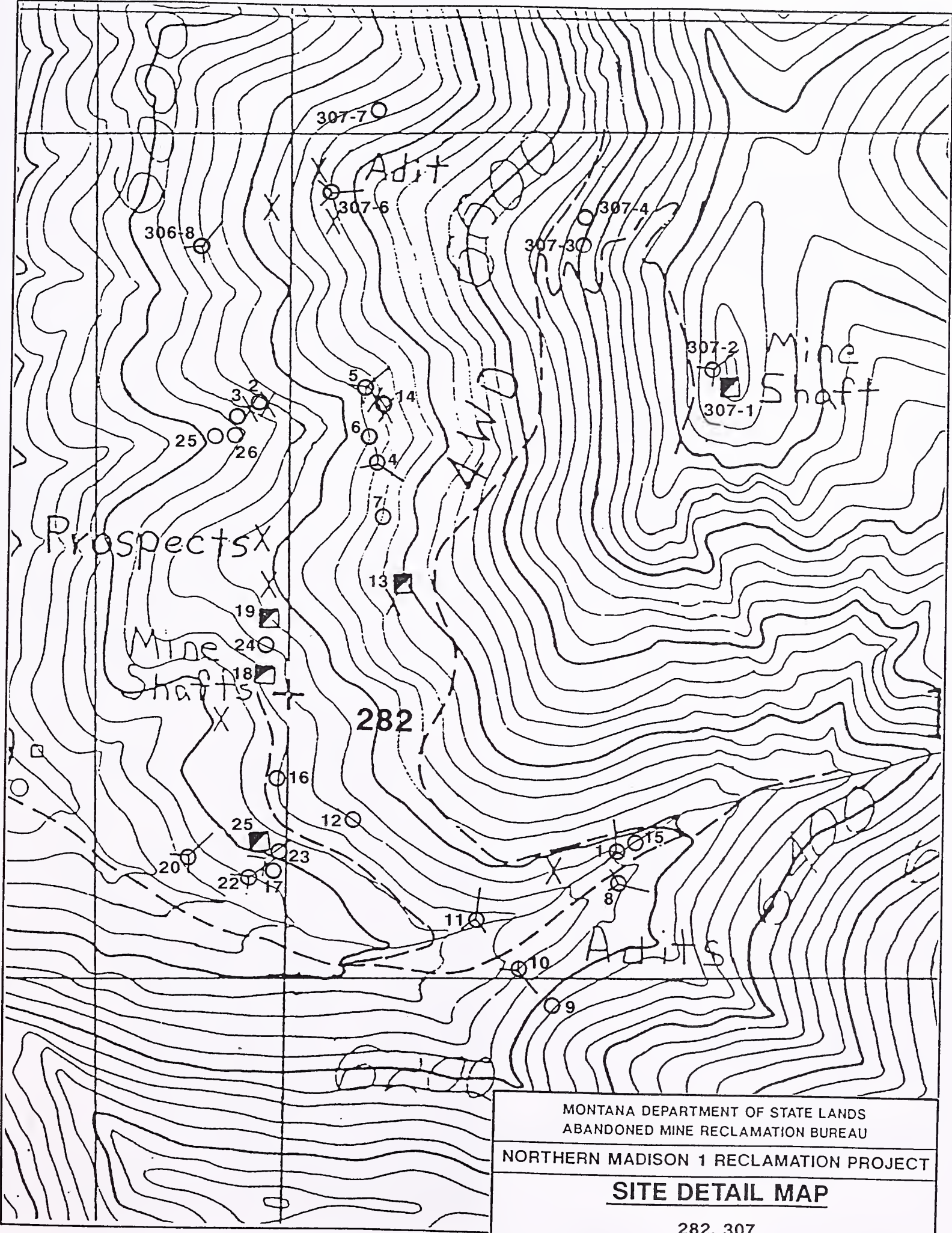
SITE DETAIL MAP

284, 286

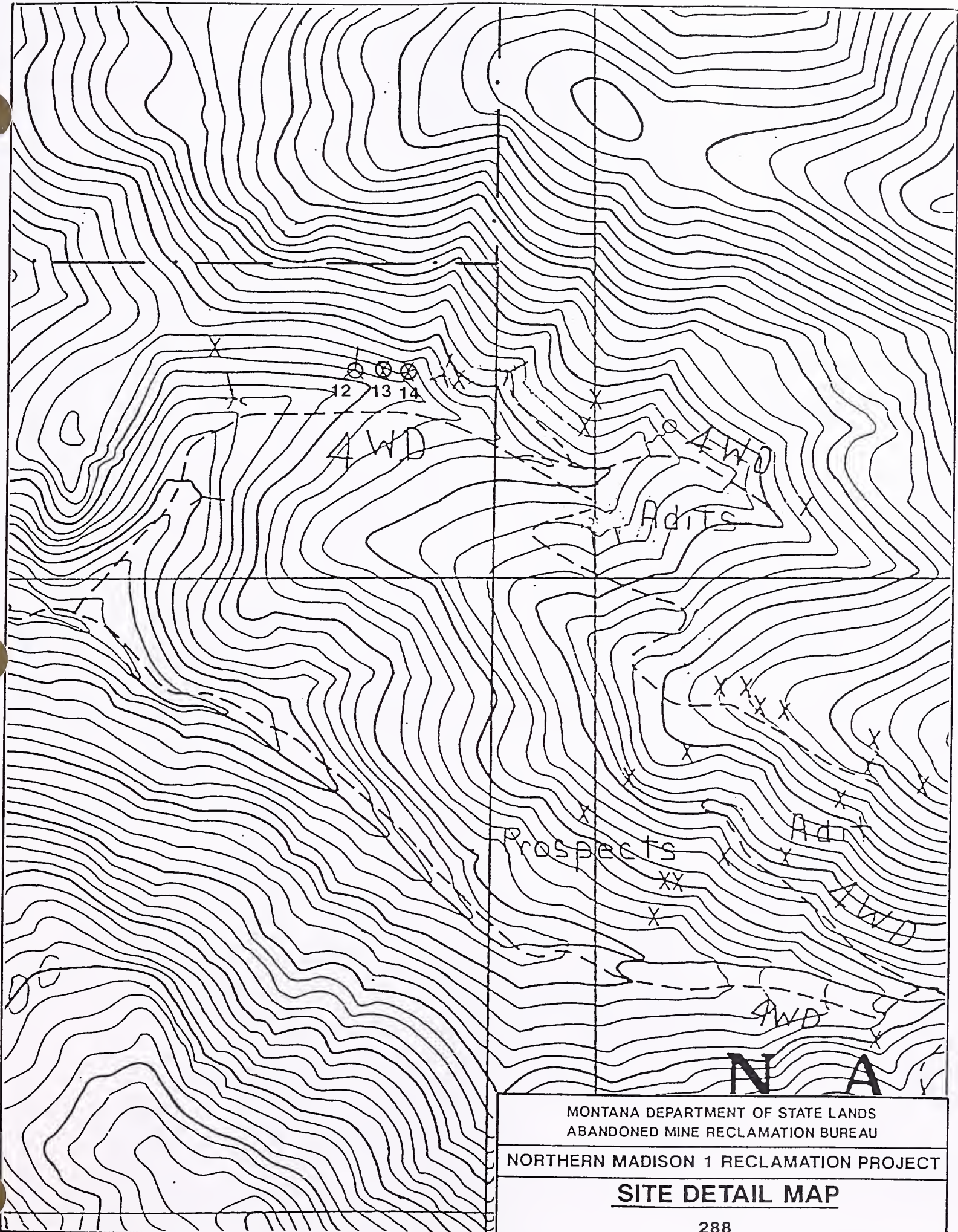
Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

MAP No.
5



MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU		
NORTHERN MADISON 1 RECLAMATION PROJECT		
SITE DETAIL MAP		
282, 307		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 6



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

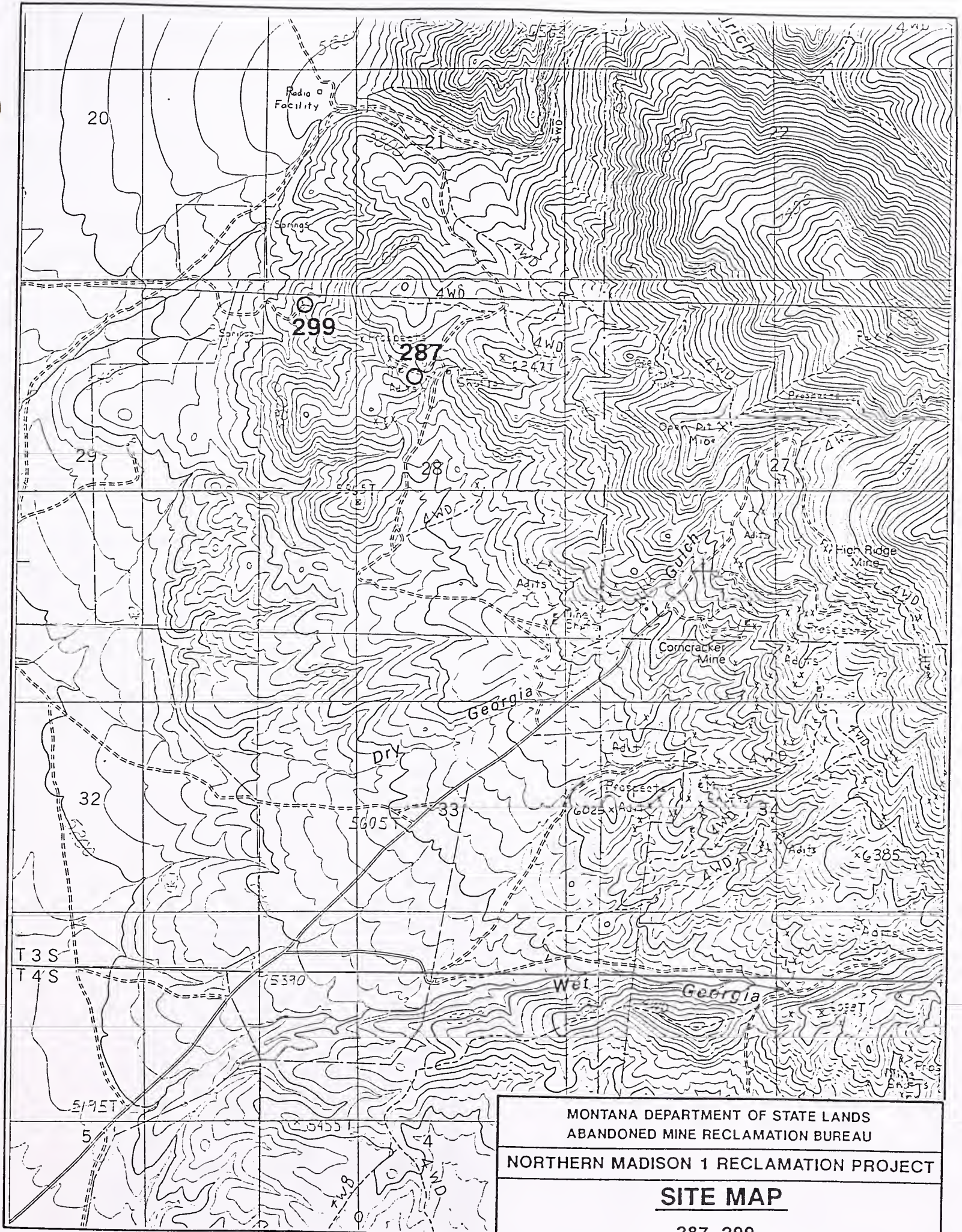
SITE DETAIL MAP

288

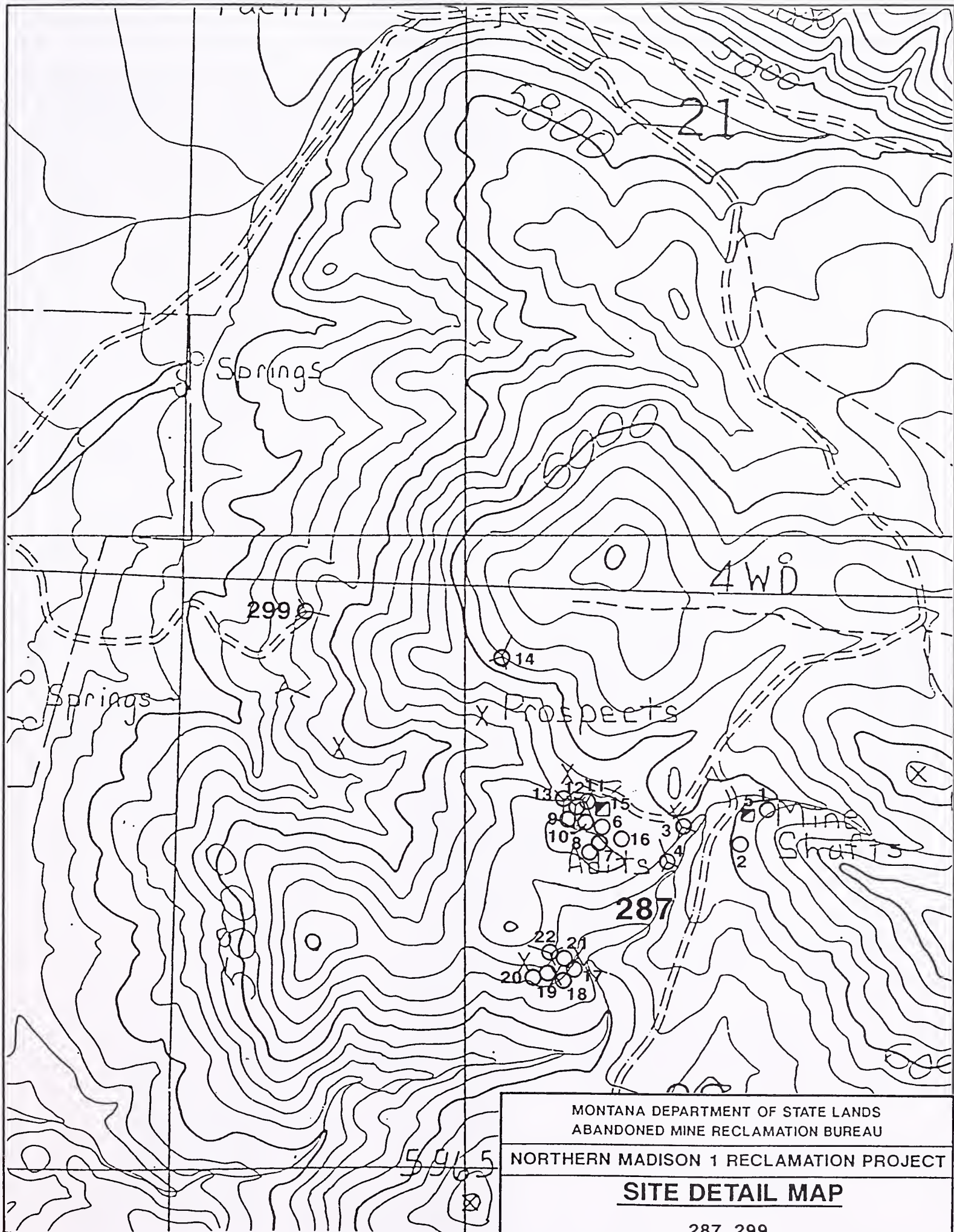
Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

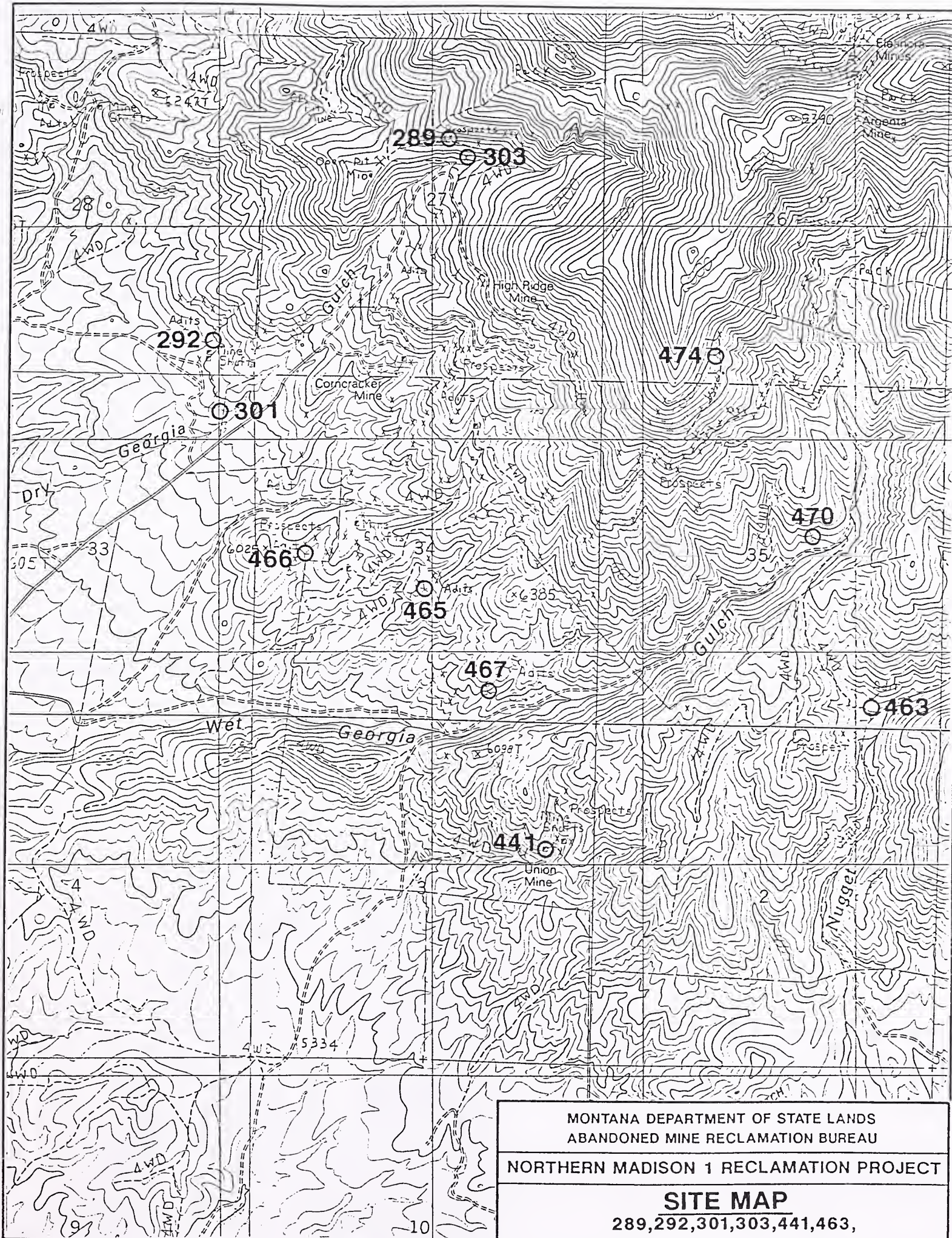
MAP No.
7



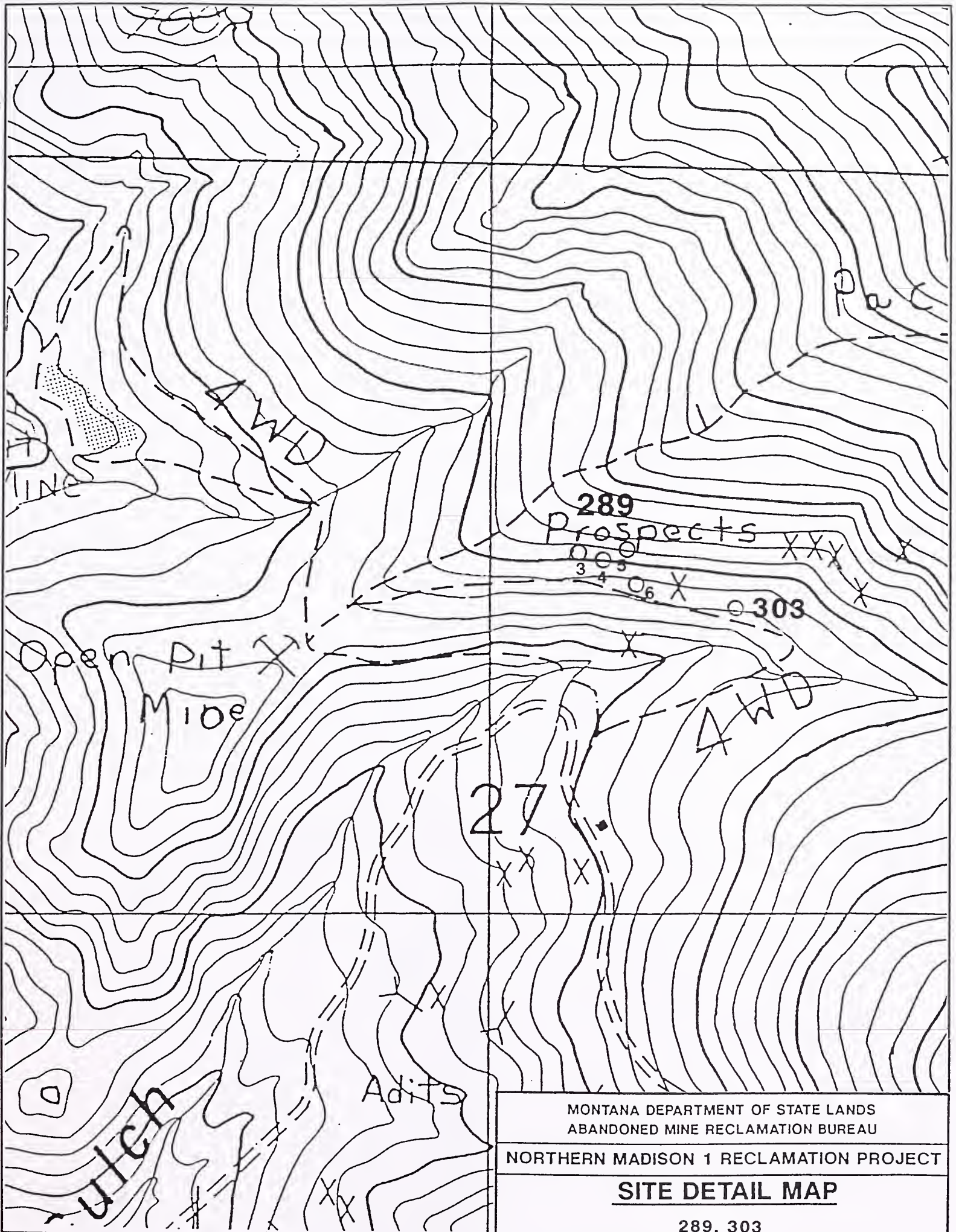
MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU		
NORTHERN MADISON 1 RECLAMATION PROJECT		
SITE MAP		
287, 299		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 8



MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU		
NORTHERN MADISON 1 RECLAMATION PROJECT		
SITE DETAIL MAP		
287, 299		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 9



MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU		
NORTHERN MADISON 1 RECLAMATION PROJECT		
SITE MAP 289,292,301,303,441,463, 465,466,467,470,474		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 10



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

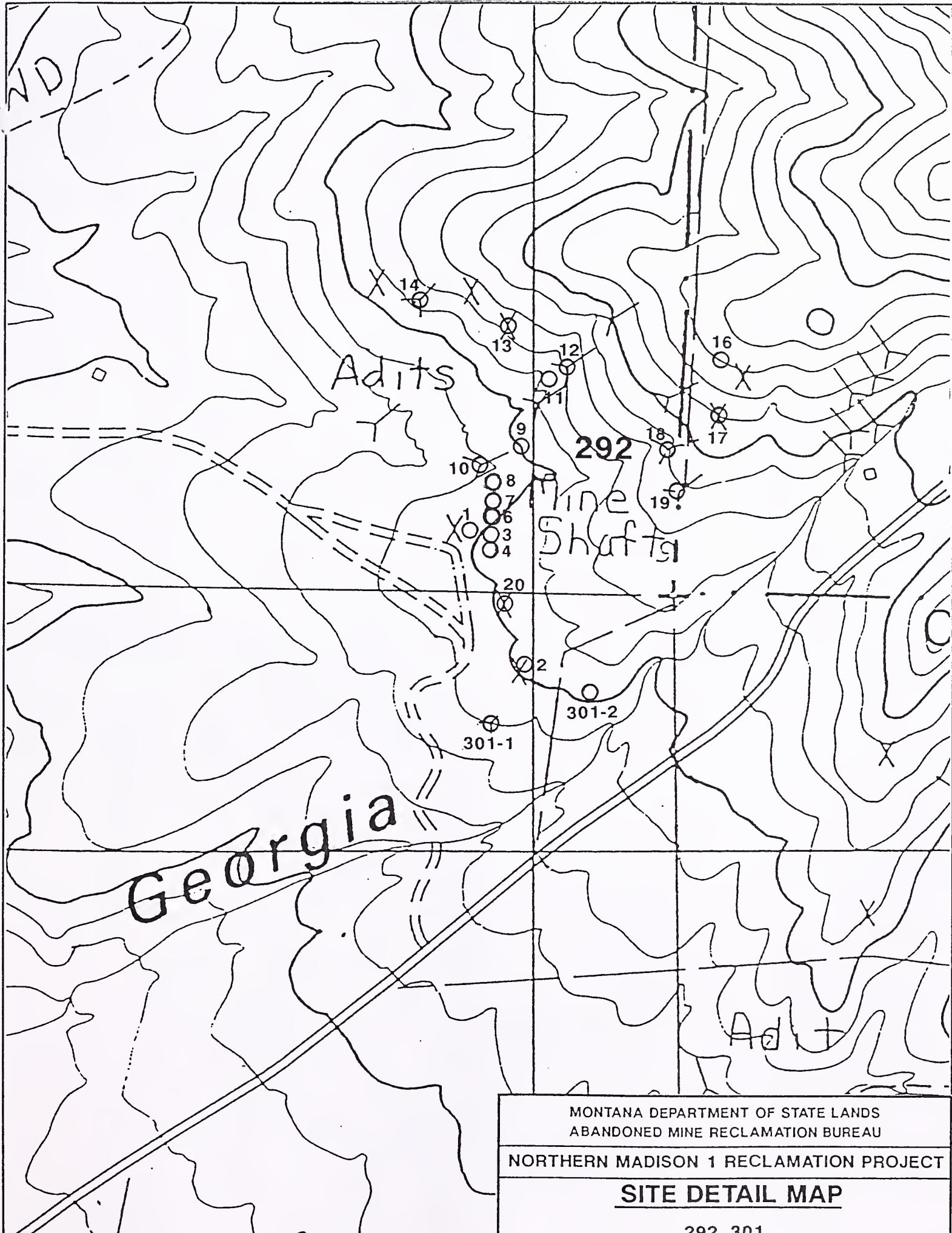
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289, 303

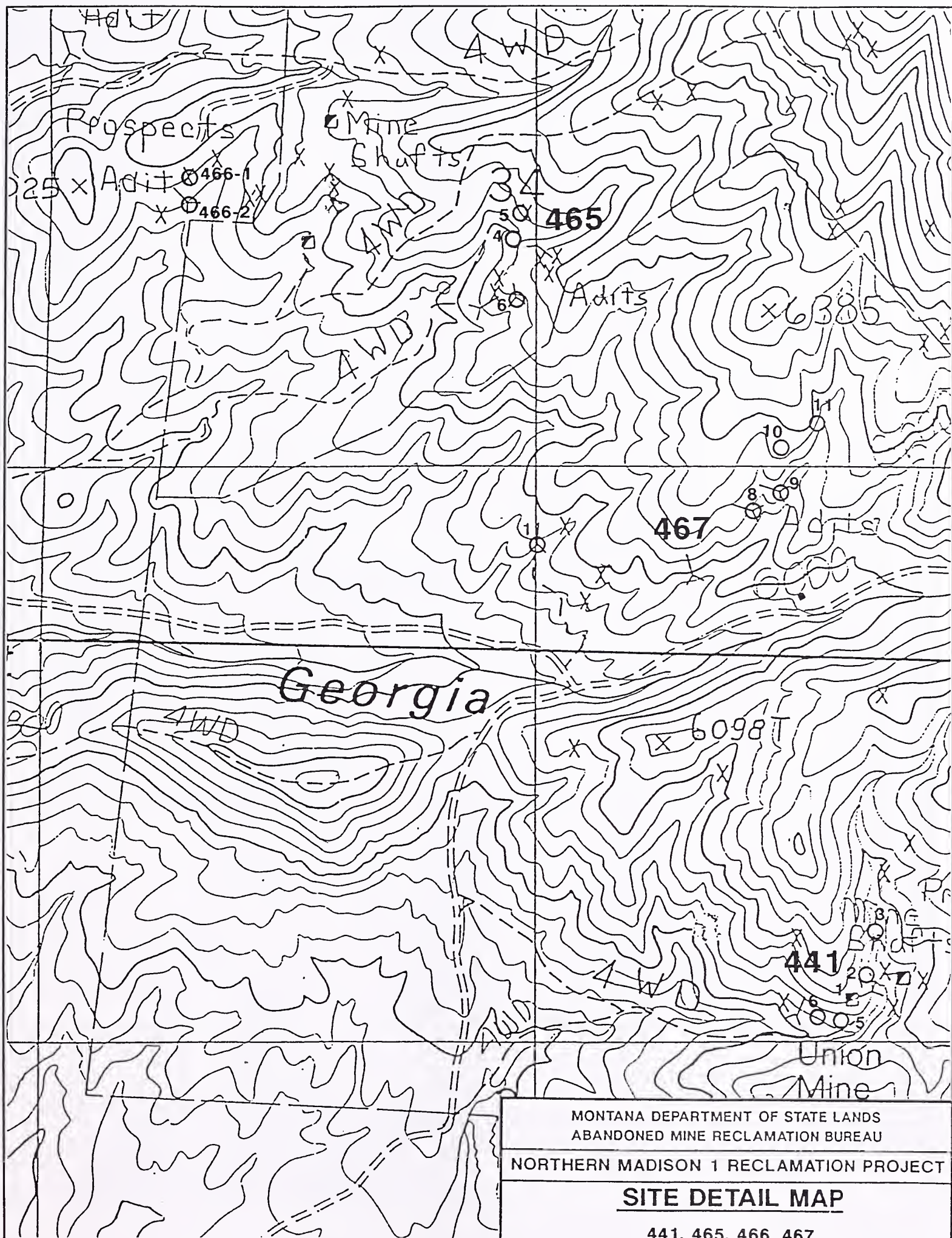
Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

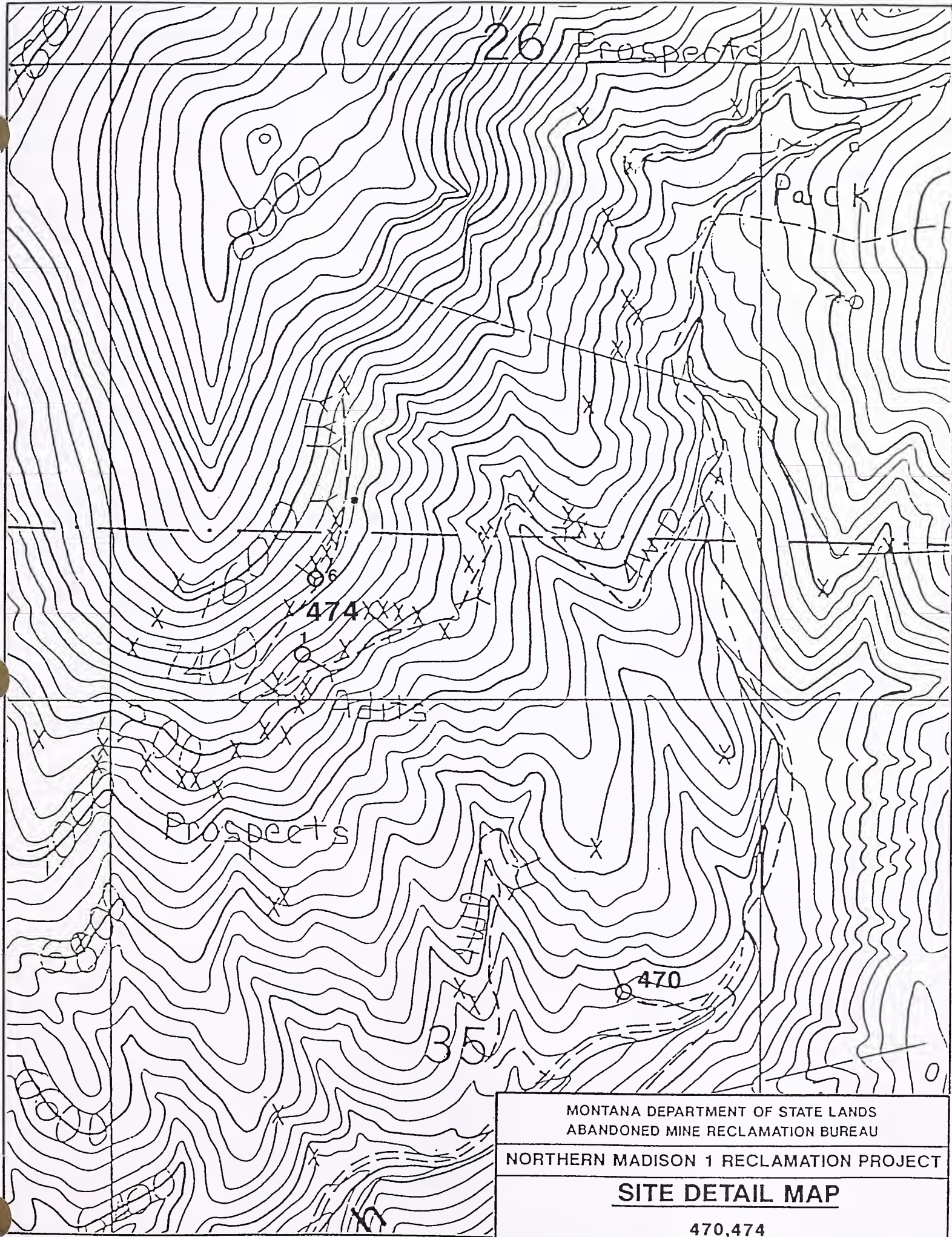
MAP No.
11



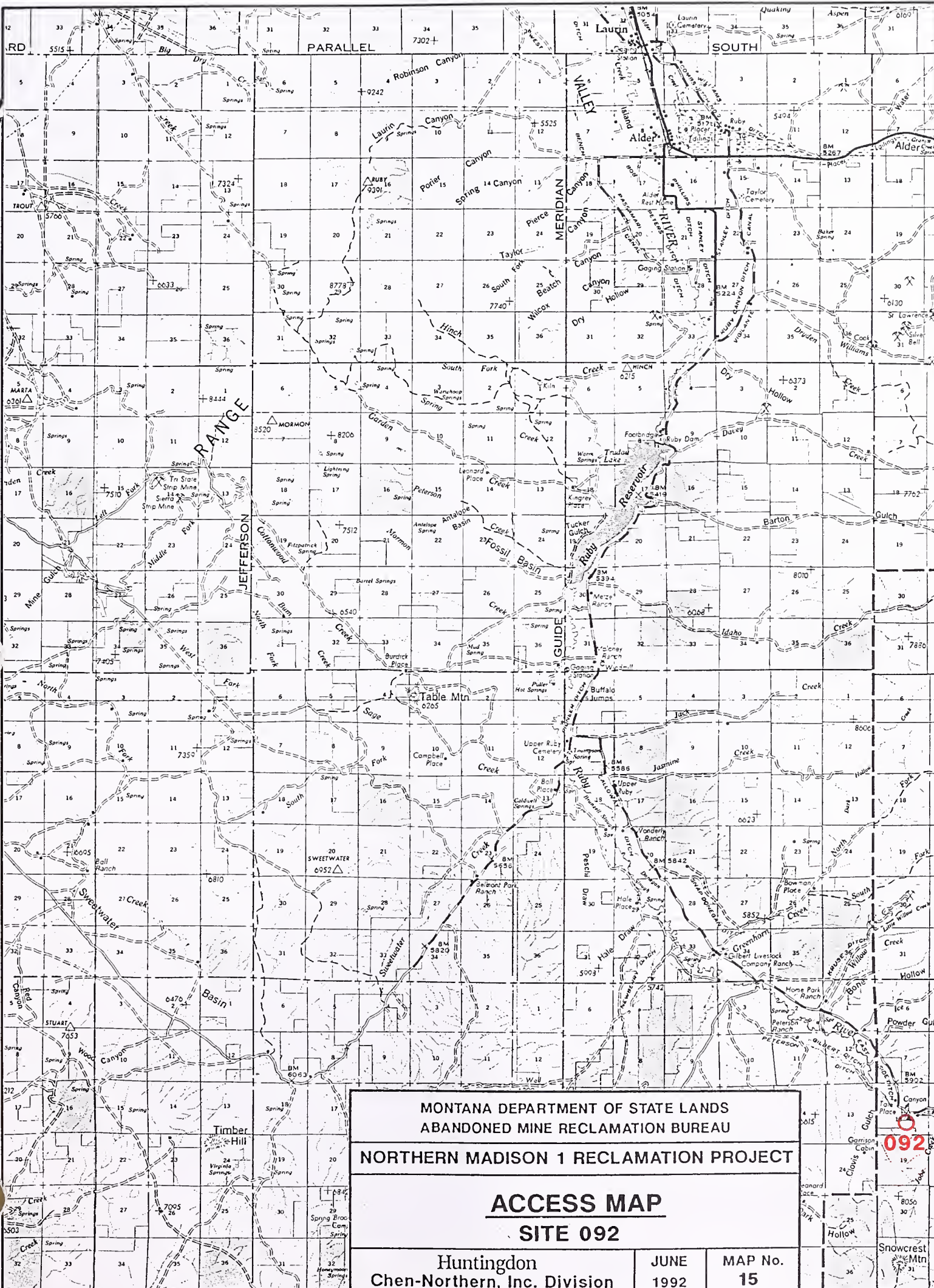
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NORTHERN MADISON 1 RECLAMATION PROJECT		
<u>SITE DETAIL MAP</u>		
292, 301		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 12



MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU		
NORTHERN MADISON 1 RECLAMATION PROJECT		
SITE DETAIL MAP		
441, 465, 466, 467		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 13



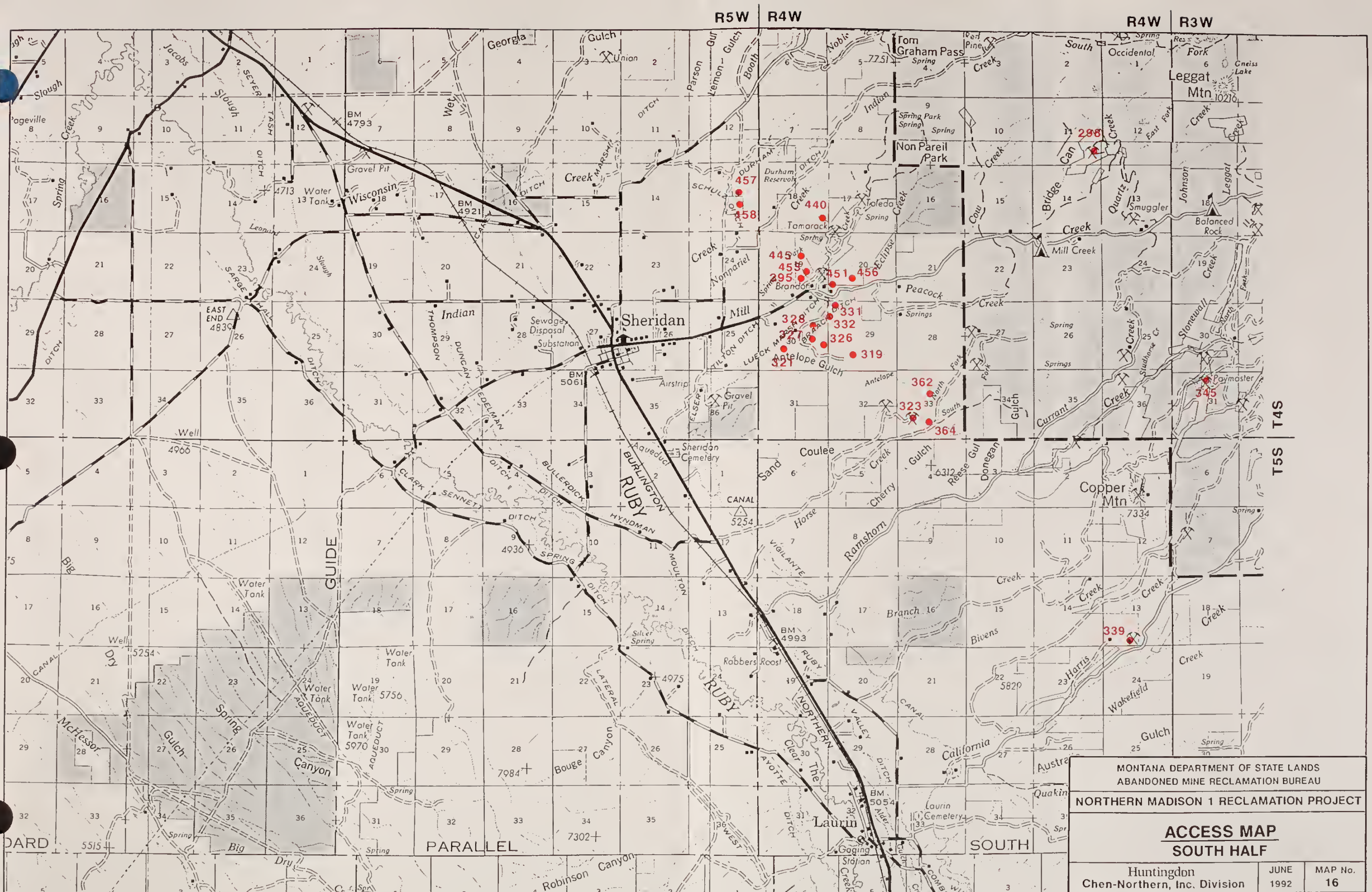
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NORTHERN MADISON 1 RECLAMATION PROJECT		
<u>SITE DETAIL MAP</u>		
470,474		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 14



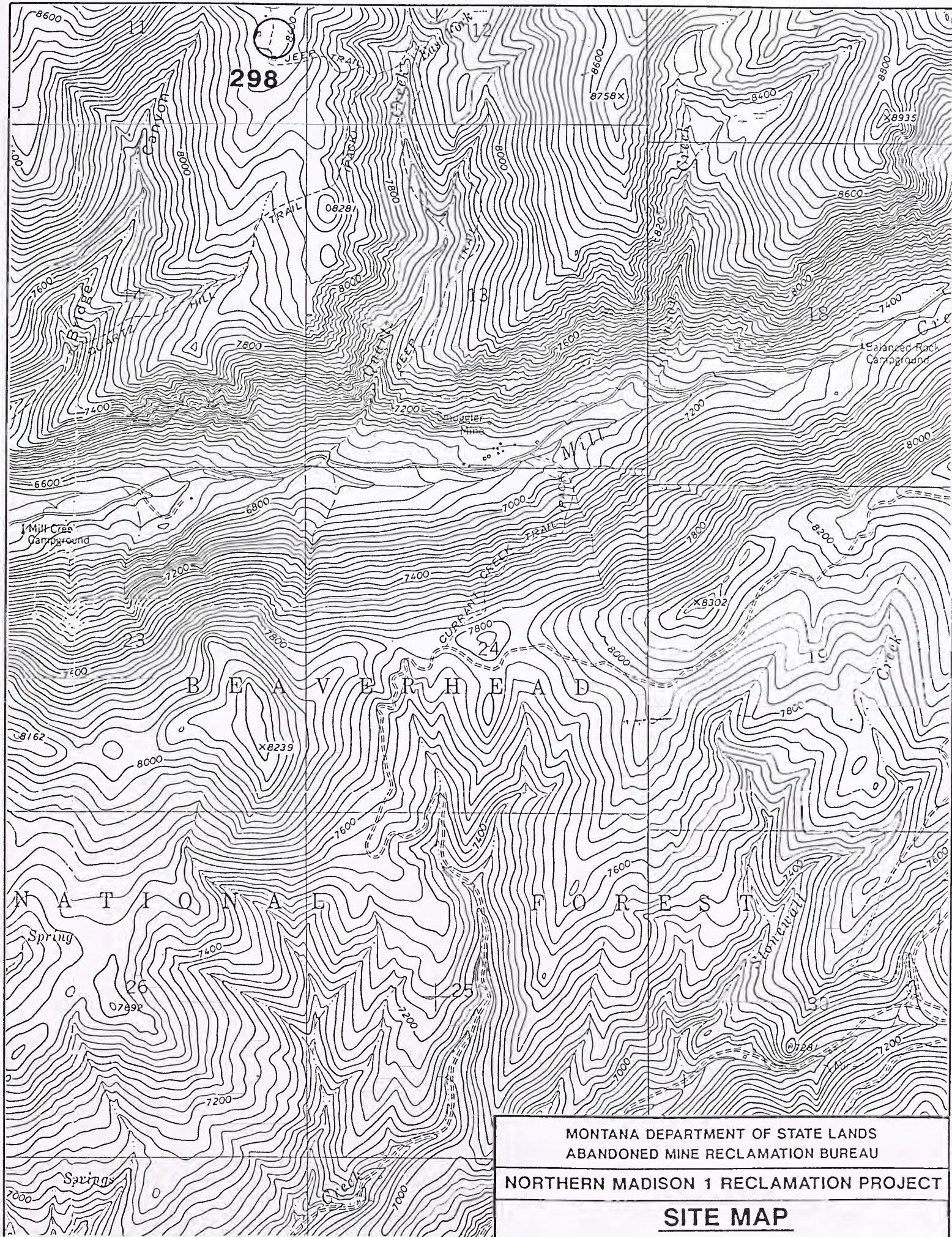
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NORTHERN MADISON 1 RECLAMATION PROJECT		
ACCESS MAP		
SITE 092		
Huntingdon Chen-Northern, Inc. Division		JUNE 1992
		MAP No. 15

T8S
T9S

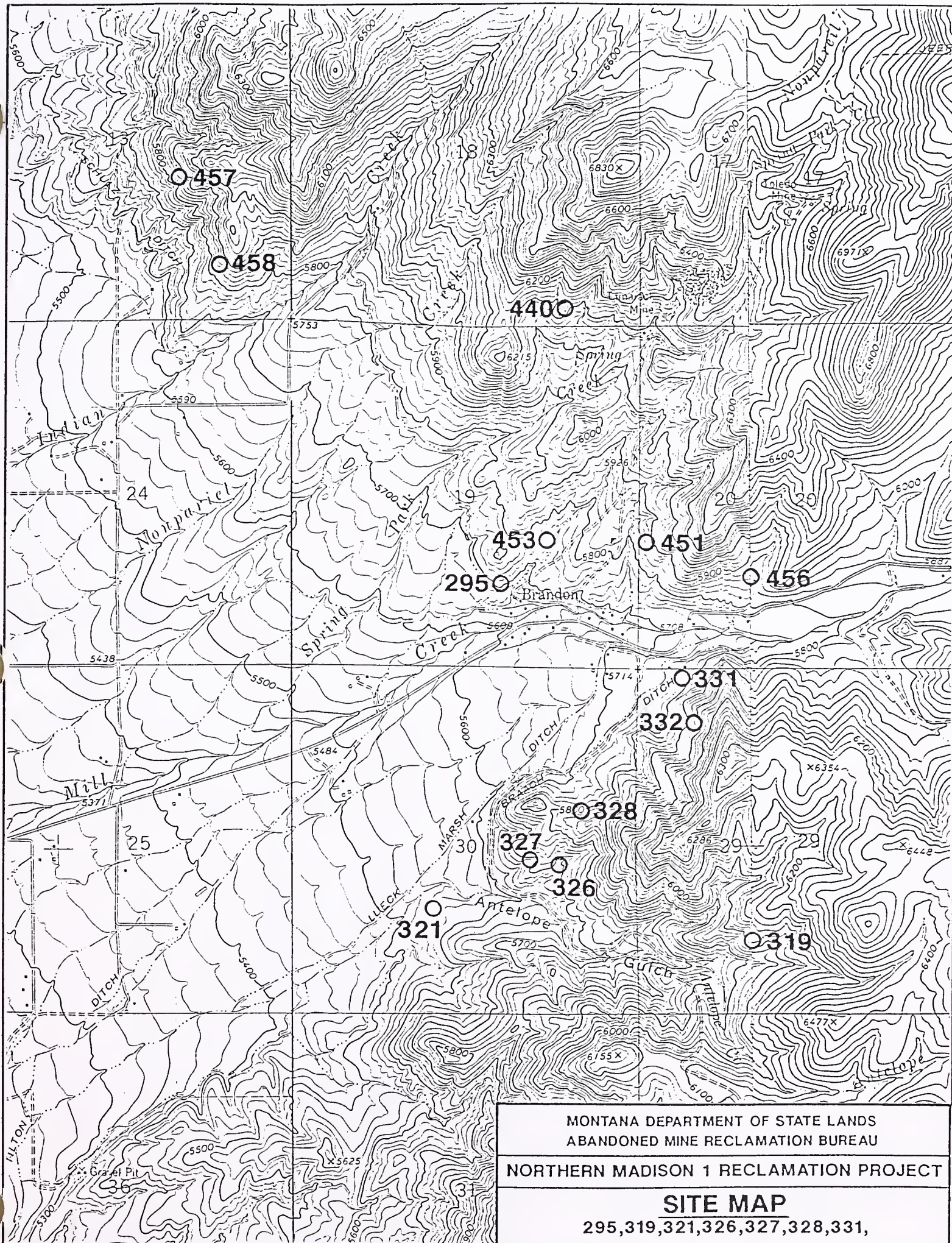
R4W R3W



MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU		
NORTHERN MADISON 1 RECLAMATION PROJECT		
ACCESS MAP SOUTH HALF		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 16



MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU		
NORTHERN MADISON 1 RECLAMATION PROJECT		
SITE MAP		
298		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 17



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

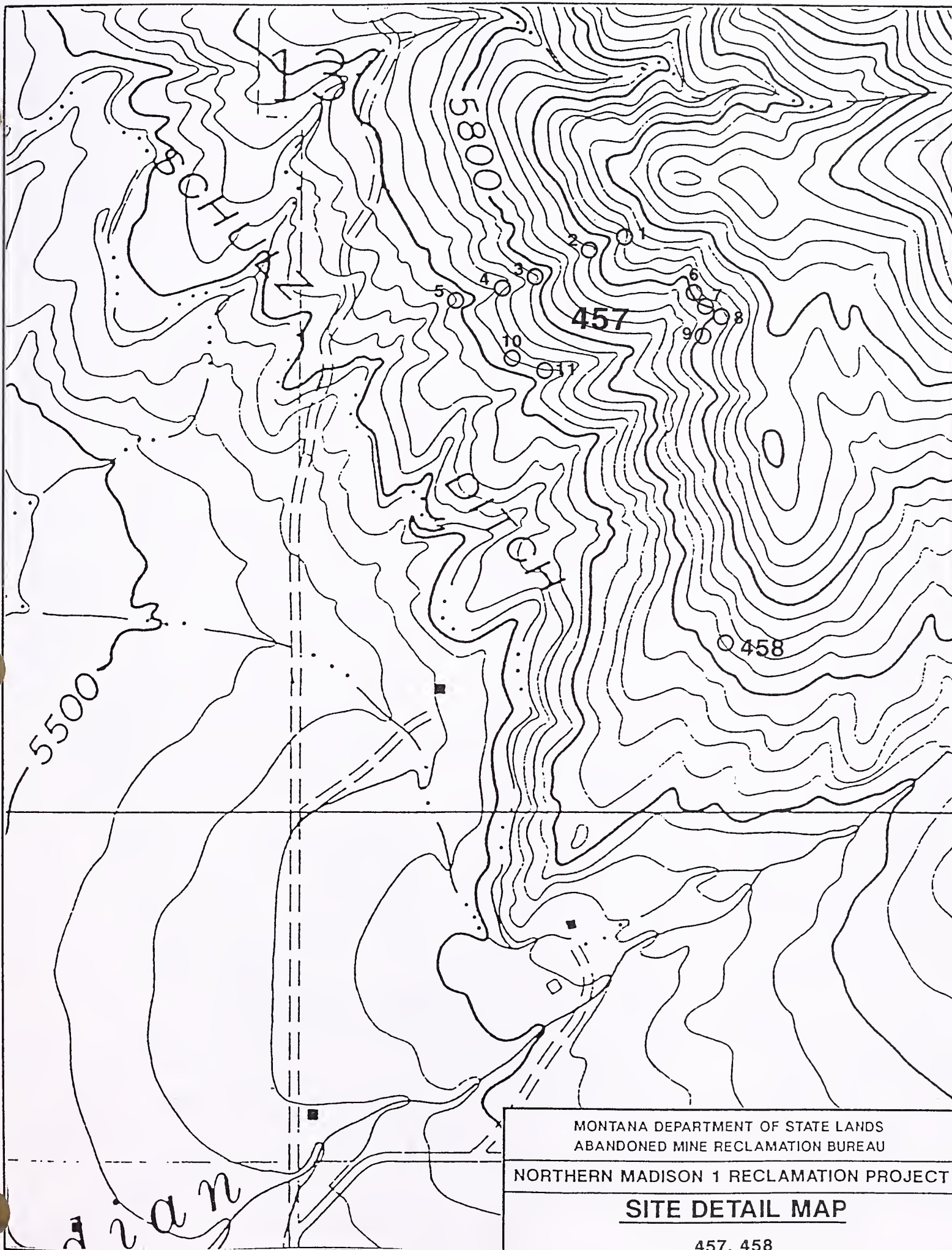
SITE MAP

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332,440,451,453,456,457,458

Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

MAP No.
18



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

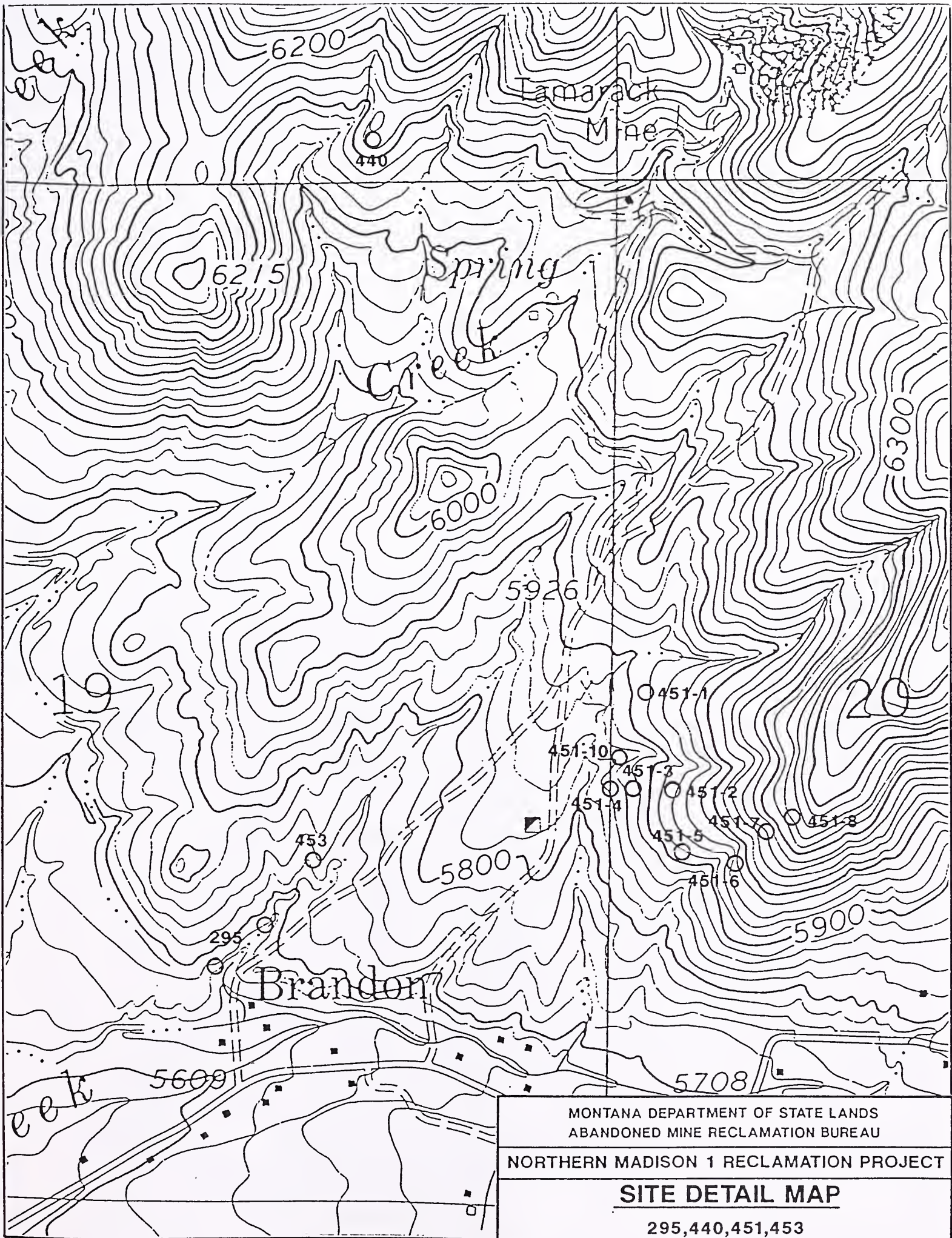
SITE DETAIL MAP

457, 458

Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

MAP No.
19



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

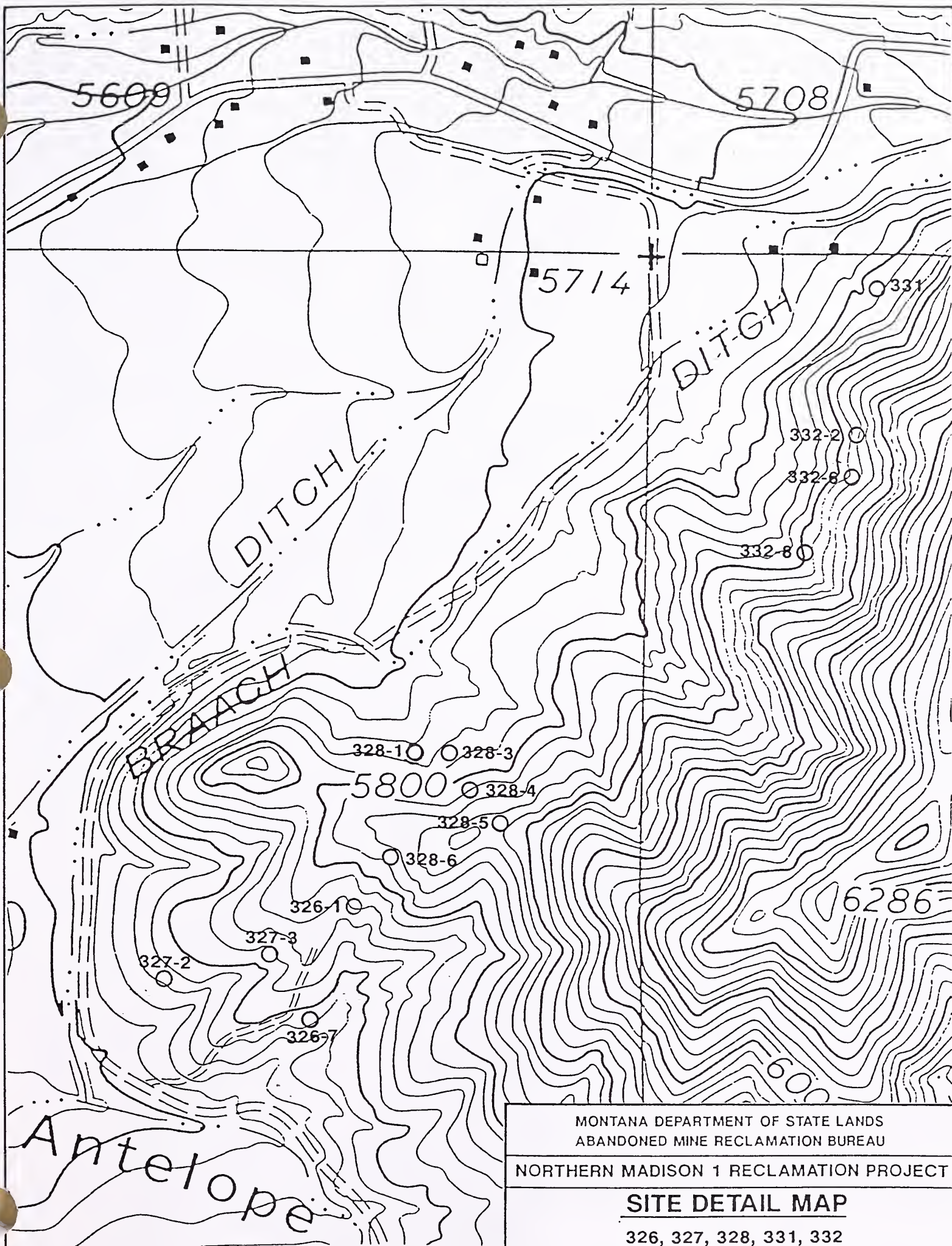
SITE DETAIL MAP

295,440,451,453

Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

MAP No.
20



MONTANA DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

NORTHERN MADISON 1 RECLAMATION PROJECT

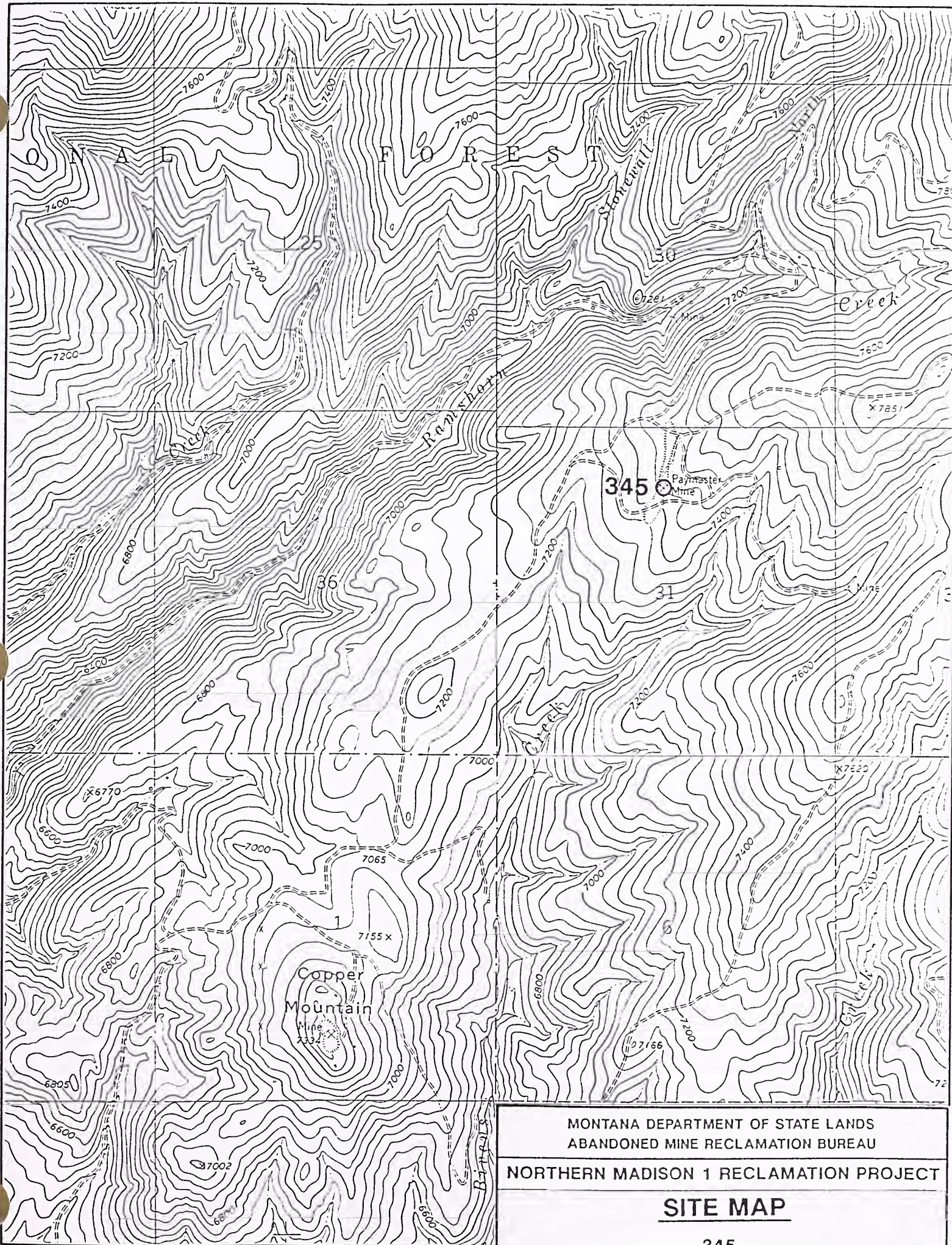
SITE DETAIL MAP

326, 327, 328, 331, 332

Huntingdon
Chen-Northern, Inc. Division

JUNE
1992

MAP No.
21



MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU		
NORTHERN MADISON 1 RECLAMATION PROJECT		
SITE MAP		
345		
Huntingdon Chen-Northern, Inc. Division	JUNE 1992	MAP No. 23

APPENDIX B

BID TABULATIONS

NORTHERN MADISON ONE RECLAMATION PROJECT

NORTHERN MADISON ONE
MADISON COUNTY, MONTANA

DSL-AMRB No. 92-005
July 30, 1992

BID TABULATIONS				ENGINEER'S ESTIMATE		Scott Construction, Inc.	Mungas Co., Inc.		Shumaker Trucking & Excavating
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price				
1.	1	LS	Mobilization, Bonding and Insurance	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	6,000.00
2.	1	LS	Debris Cleanup	650.00	650.00	4,500.00	3,000.00	20,000.00	20,000.00
3.	5,325	EA	Adit and Shaft Closure - Backfill Closure	5.00	26,625.00	8.45	44,996.25	5.00	26,625.00
4.	55	EA	Adit and Shaft Seal - Blast or Hand Seal	598.00	32,890.00	425.00	23,375.00	1,000.00	55,000.00
5.	52	EA	Adit Culvert	1,690.00	87,880.00	1,400.00	72,800.00	1,500.00	78,000.00
6.	2	EA	Adit Masonry Door	2,000.00	4,000.00	1,200.00	2,400.00	3,000.00	6,000.00
7.	6	EA	Steel Grate Shaft Systems - Specialty Grates	3,700.00	22,200.00	1,950.00	11,700.00	2,500.00	15,000.00
8.	1	EA	Steel Grate Shaft Systems - Owner Provided	2,000.00	2,000.00	1,750.00	1,750.00	2,500.00	2,500.00
9.	19	EA	Cable Net Closure	1,530.00	15,300.00	800.00	8,000.00	1,000.00	10,000.00
10.	19	EA	Install Owner Provided Signs	30.00	570.00	14.85	282.15	50.00	950.00
11.	2,535	LF	Farm Fence (Type F-5)	5.0237	12,735.08	4.90	12,421.50	5.00	12,675.00
12.	1	LS	Fertilizing, Seeding and Mulching	3,500.00	3,500.00	2,250.00	2,250.00	12,000.00	12,000.00
13.	1	LS	Canyon Campground Demolition (Site 29-092)	9,800.00	9,800.00	7,500.00	7,500.00	10,000.00	10,000.00
					223,150.08		196,974.90	296,112.62	253,750.00

NORTHERN MADISON ONE
MADISON COUNTY, MONTANA

DSL-AMRB No. 92-005
July 30, 1992

BID TABULATIONS				ENGINEER'S ESTIMATE		Sharbono Construction		Montgomery Construction		Mainline Construction, Inc.	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price						
1.	1	LS	Mobilization, Bonding and Insurance	5,000.00	5,000.00	5,000.00		5,000.00		5,000.00	5,000.00
2.	1	LS	Debris Cleanup	650.00	650.00	1,500.00		100.00		10,000.00	70,000.00
3.	5,325	CY	Adit and Shaft Closure - Backfill Closure	5.00	26,625.00	7.25	38,606.25	7.00	37,275.00	10.00	53,250.00
4.	55	EA	Adit and Shaft Seal - Blast or Hand Seal	598.00	32,890.00	625.00	34,375.00	1,500.00	82,500.00	600.00	33,000.00
5.	52	EA	Adit Culvert	1,690.00	87,880.00	1,825.00	94,900.00	3,000.00	156,000.00	1,500.00	78,000.00
6.	2	EA	Adit Masonry Door	2,000.00	4,000.00	1,750.00	3,500.00	3,600.00	7,200.00	2,500.00	5,000.00
7.	6	EA	Steel Grate Shaft Systems - Specialty Grates	3,700.00	22,200.00	1,820.00	10,920.00	2,600.00	15,600.00	3,706.00	22,236.00
8.	1	EA	Steel Grate Shaft Systems - Owner Provided	2,000.00	2,000.00	2,200.00	2,200.00	2,000.00	2,000.00	1,390.00	1,390.00
9.	10	EA	Cable Net Closure	1,530.00	15,300.00	950.00	9,500.00	2,000.00	20,000.00	950.00	9,500.00
10.	19	EA	Install Owner Provided Signs	30.00	570.00	75.00	1,425.00	100.00	1,900.00	65.00	1,235.00
11.	2,535	LF	Farm Fence (Type F-5)	5.0237	12,735.08	5.25	13,308.75	5.00	12,675.00	3.00	7,605.00
12.	1	LS	Fertilizing, Seeding and Mulching	3,500.00	3,500.00	10,000.00	10,000.00	10,000.00	10,000.00	5,000.00	5,000.00
13.	1	LS	Canyon Campground Demolition (Site 29-092)	9,800.00	9,800.00	16,583.00	16,583.00	10,000.00	10,000.00	3,500.00	3,500.00
					223,150.08		241,818.00		360,250.00		234,716.00

NORTHERN MADISON ONE
MADISON COUNTY, MONTANA

DSL-AMRB No. 92-005
July 30, 1992

BID TABULATIONS				ENGINEER'S ESTIMATE		G. M. Construction		A. M. Welles Inc.		L. R. Huckaba Ranch Inc.	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price				**NOTE: Bid Not Signed!		
1.	1	LS	Mobilization, Bonding and Insurance	5,000.00	5,000.00	5,000.00	8,000.00	5,000.00	5,000.00	5,000.00	5,000.00
2.	1	LS	Debris Cleanup	650.00	650.00	6,000.00	6,000.00	10,000.00	10,000.00	10,000.00	10,000.00
3.	5,325	CY	Adit and Shaft Closure - Backfill Closure	5.00	26,625.00	5.00	26,625.00	10.65	56,711.25	9.00	47,925.00
4.	55	EA	Adit and Shaft Seal - Blast or Hand Seal	598.00	32,890.00	1,200.00	66,000.00	266.00	14,630.00	500.00	27,500.00
5.	52	EA	Adit Culvert	1,690.00	87,880.00	1,211.00	62,972.00	1,088.73	56,613.96	1,000.00	52,000.00
6.	2	EA	Adit Masonry Door	2,000.00	4,000.00	1,700.00	3,400.00	1,700.00	3,400.00	2,500.00	5,000.00
7.	6	EA	Steel Grate Shaft Systems - Specialty Grates	3,700.00	22,200.00	2,499.00	14,994.00	4,900.00	29,400.00	2,600.00	15,600.00
8.	1	EA	Steel Grate Shaft Systems - Owner Provided	2,000.00	2,000.00	700.00	700.00	2,000.00	2,000.00	1,500.00	1,500.00
9.	10	EA	Cable Net Closure	1,530.00	15,300.00	800.00	8,000.00	1,100.00	11,000.00	800.00	8,000.00
10.	10	EA	Install Owner Provided Signs	30.00	570.00	40.00	760.00	120.00	2,280.00	200.00	3,800.00
11.	2,535	LF	Farm Fence (Type F-5)	5.0237	12,735.08	4.50	11,407.50	7.41	18,784.35	3.00	7,605.00
12.	1	LS	Fertilizing, Seeding and Mulching	3,500.00	3,500.00	5,100.00	5,100.00	29,982.00	29,982.00	21,000.00	21,000.00
13.	1	LS	Canyon Campground Demolition (Site 29-092)	9,800.00	9,800.00	5,000.00	5,000.00	5,500.00	5,500.00	5,000.00	5,000.00
					223,150.08		215,958.50		245,301.56		209,930.00

NORTHERN MADISON ONE
MADISON COUNTY, MONTANA

BID TABULATIONS					ENGINEER'S ESTIMATE		Coleman Construction Inc.			
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price					
1.	1	LS	Mobilization, Bonding and Insurance	5,000.00	5,000.00	5,000.00		0.00		0.00
2.	1	LS	Debris Cleanup	650.00	650.00	1,000.00		0.00		0.00
3.	5,325	EA	Adit and Shaft Closure - Backfill Closure	5.00	26,625.00	53,250.00	10.00	0.00		0.00
4.	55	EA	Adit and Shaft Seal - Elast or Hand Seal	598.00	32,890.00	33,999.90	618.18	0.00		0.00
5.	52	EA	Adit Culvert	1,690.00	87,880.00	72,800.00	1,400.00	0.00		0.00
6.	2	EA	Adit Masonry Door	2,000.00	4,000.00	3,000.00	1,500.00	0.00		0.00
7.	6	EA	Steel Grate Shaft Systems - Specialty Grates	3,700.00	22,200.00	18,000.00	3,000.00	0.00		0.00
8.	1	EA	Steel Grate Shaft Systems - Owner Provided	2,000.00	2,000.00	2,000.00	2,000.00	0.00		0.00
9.	10	EA	Cable Net Closure	1,530.00	15,300.00	5,000.00	500.00	0.00		0.00
10.	10	EA	Install Owner Provided Signs	30.00	570.00	570.00	500.00	0.00		0.00
11.	2,535	LF	Farm Fence (Type F-5)	5.0237	12,735.08	10,140.00	4.00	0.00		0.00
12.	1	LS	Fertilizing, Seeding and Mulching	3,500.00	3,500.00	1,000.00	1,000.00	0.00		0.00
13.	1	LS	Canyon Campground Demolition (Site 29-092)	9,800.00	9,800.00	5,000.00	5,000.00	0.00		0.00
					223,150.08	210,759.90		0.00		0.00

APPENDIX C

KEY RECEIPT ACKNOWLEDGEMENTS NORTHERN MADISON ONE RECLAMATION PROJECT

TABLE C-1

**KEY-RECEIPT ACKNOWLEDGEMENT STATUS
NORTHERN MADISON ONE RECLAMATION PROJECT**

SITE NAME	PA NO.	CLOSURE	LANDOWNER	KEY RECEIPT
Shoemaker	29-071	Grate	Robert Wood	No
Ellen Marshall	29-157-1 29-157-2	Grate	Dan Sullivan	Yes
Moffat	29-276-1	Grate	Johnston Reid	No
Tidal Wave	29-287-4 29-287-5	Culvert Grate	North Lily Mining Co.	Yes
NW NW Sec. 28	29-299-1	Culvert		
Nash Group	29-323-1	Culvert	ECM, Inc.	No
Antelope Gulch #2	29-326-1 29-326-7	Culvert Culvert		No
Antelope Gulch #1	29-327-2 29-327-3	Culvert Culvert		No
O'Rourke	29-331-1	Culvert		
Ft. Knox	29-332-2 29-332-6 29-332-8	Culvert Culvert Culvert	Jerry Braach	No
Union	29-441-3 29-441-5 29-441-6	Culvert Masonry Door Culvert	Tidal Wave Partners	Yes
Whiskey Jack	29-465-4 29-465-5 29-465-6	Culvert Culvert Culvert		
Kentucky	29-466-1 29-466-3	Culvert Culvert		
Brimstone	29-467-1 29-467-8 29-467-9 29-467-10 29-467-11	Masonry door Culvert Culvert Culvert Culvert		
Wet Georgia Gulch	29-470-1	Masonry Door		
Flamm Ranch	29-456-4	Culvert	Norman Flamm	No
Sheridan View	29-321-1 29-321-5	Grate Grate	Largey Estate (c/o Mark MacDonald)	Yes

I hereby acknowledge receipt of keys to the lock on the steel grates installed at the following abandoned mine project sites:

Rochester Mining District
NE Section 33, T3S, R7W
Ellen Marshall and Copper Chief
Madison County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Sam J. Alliman
Name

8/9/93
Date

Mike B. Gillman
Witness

8/9/1993
Date

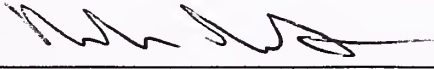
I hereby acknowledge receipt of keys to the lock on the culverts and grate installed at the following abandoned mine project sites:

Tidal Wave Mining District
SE NW Section 28, T3S, R5W
Tidal Wave Sites # 287-4 & 5
NW NW Section 28, T3S, R5W
Site # 299-1
Madison County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.


Name North Hill Mining Co Date 8/14/63

Witness _____ Date _____

I hereby acknowledge receipt of keys to the lock on the culverts and masonry adit doors installed at the following abandoned mine project sites:

Tidal Wave Mining District
SE NE Section 3
Union sites # 441-3,5,& 6
NW SE Section 34, T3S, R5W
Whiskey Jack sites # 465-4,5,& 6
NW SW Section 34, T3S, R5W
Kentucky sites # 466-1 & 3
E SW Section 34, T3S, R5W
Brimstone sites # 467-1,8,9,10,& 11
SW NE Section 35, T3S, R5W
Wet Georgia Gulch site # 470-1
Madison County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Kenneth F. Hoyer
Lorin A. Lepp

Name

Date

Robert Caff

Witness

8/19/93

Date

Notary Public for State of Montana
Comm. Expires 2-16-96

Sheridan Mining District
SE SW Section 30, T4S, R4W
Sheridan View
Madison County, MT

Largey BTRTS / Mark D. MacDonald 8/6/93

Date _____

APPENDIX D

CHANGE ORDERS AND WORK DIRECTIVE CHANGES NORTHERN MADISON ONE RECLAMATION PROJECT

CHANGE ORDER

ORDER NO. 1

PROJECT TITLE: Northern Madison One Reclamation Project

MONT A/E or DSL-AMRB: 92-005

CONTRACT DATE: September 18, 1992

OWNER: Montana Department of State Lands/Abandoned Mine Reclamation Bureau

CONTRACTOR: Scott Construction, Inc., P.O. Box 777, East Helena, MT 59635

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'LS.	LABOR	EQUIP.	MISC.	TOTAL UNIT COST	
1.	Ellen Marshall site #157-1 Add: Owner provided steel grate system					\$1,750.00	\$1,750.00
2.	Ellen Marshall site #157-2 Add: Owner provided steel grate system					\$1,750.00	\$1,750.00
3.	Dry Gulch South site #282-17 Add: Shaft closure (75 cy) Delete: Shaft seal					\$ 8.45 <425.00>	\$ 633.75 <425.00>
4.	Dry Gulch South site #282-26 Add: Adit seal					425.00	425.00
5.	Dry Gulch South site #282-27 Add: Adit seal					\$ 425.00	\$ 425.00
6.	Smith Reservoir South site #286-4 Add: Adit closure (60 cy) Delete: Adit Seal					8.45 <425.00>	507.00 <425.00>
7.	Smith Reservoir South site #286-5 Add: Adit closure (30 cy) Delete: Adit seal					8.45 <425.00>	253.50 <425.00>
8.	Smith Reservoir South site #286-10 Add: Adit closure (30 cy) Delete: Adit seal					8.45 <425.00>	253.50 <425.00>
9.	SENW Section 27 site #289-7 Delete: Adit seal					<425.00>	<425.00>
10.	Deutschland site #292-20 Add: Shaft closure (83 cy)					8.45	701.35
11.	Deutschland site #292-12 Add: Adit seal Delete: Adit closure (15 cy)					425.00 8.45	425.00 <126.75>
12.	Deutschland site #292-13 Add: Adit seal Delete: Adit closure (10 cy)					8.45	425.00 <84.50>
TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC.							\$5,212.85
OVERHEAD & PROFIT @ <u>Included</u> %							-0-
GRAND TOTAL - THIS CHANGE ORDER							\$5,212.85

Original Contract Price	196,974.90
Current Contract Price Adjusted by Previous Change Order	-0-
Cost this Change Order (+ or -)	5,212.85
New Contract Price including this Change Order	202,187.75

The completion date as set forth in the Contract Documents shall be (increased) by 3 calendar days.

The date for completion of all work will be February 14, 1993.

Description and Justification for Change:

1. Additional site identified and consent obtained from landowner and DSL/AMRB.
2. Additional site identified and consent obtained from landowner and DSL/AMRB.
3. Site accessed with equipment and shaft closure performed.
4. Additional site identified within consent area and approval obtained from DSL/AMRB.
5. Additional site identified within consent area and approval obtained from DSL/AMRB.
6. Site accessed with equipment and adit closure performed.
7. Site accessed with equipment and adit closure performed.
8. Site accessed with equipment and adit closure performed.
9. Natural abatement.
10. Additional site identified within consent area and approval obtained from DSL/AMRB.
11. Site not accessible with equipment.
12. Site not accessible with equipment.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bonds or Bonds is hereby increased by \$ 5212.85 (100% of the Change Order amount) and the penalty of the applicable Labor and Material Bond or Bonds is hereby increased by \$ 5212.85 (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

Gordon D. McManus, Flynn Insurance Agency

Transamerica Premier Insurance Agency

Gordon D. McManus

By:

John D. Leaf

Seal John D. Leaf, Attorney-In-Fact

Recommended by:

Engineer

Date

Accepted by:

Patricia Scott, Pres

Contractor

12-14-92

Date

Approved by:

Vic R. Anderson

Owner

12-17-92

Date

CHANGE ORDER

ORDER NO. 2

PROJECT TITLE: Northern Madison One Reclamation Project

MONT A/E or DSL-AMRB: 92-005

CONTRACT DATE: September 18, 1992

OWNER: Department of State Lands/Abandoned Mine Reclamation Bureau

CONTRACTOR: Scott Construction Co., Inc., P.O. Box 777, East Helena, MT 59635

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

Item No.	Description of Changes Estimated Quantities and Units	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip.	Misc.	Total Unit Cost	
1	Tidal Wave site 287-5 Delete: Specialty Grate Add: Owner-Provided Grate					1950.00 1750.00	< 1950.00 > 1750.00
2	Tidal Wave site 287-2 Delete: Adit Closure (5 cy) Add: Adit Seal					8.45 425.00	< 42.25 > 425.00
3	Brimstone site 467-4 Delete: Adit Culvert					1400.00	< 1400.00 >
4	Vanmeter sites 474-2,3,4,& 5 Delete: Adit Culverts					1400.00	< 5600.00 >
5	Vanmeter site 474-6 Delete: Adit Closure (5 cy) Add: Adit Seal					8.45 425.00	< 42.25 > 425.00
6	Brandon I sites 295-1 & 2 Delete: Adit Culverts Add: Adit Closure (5 cy each)					1400.00 8.45	< ~~2350.00~~ > < ~~1400.00~~ > 84.50
7	Brandon II site 453-1 Delete: Adit Culvert Add: Adit Closure (10 cy)					1400.00 8.45	< 1400.00 > 84.50
8	Buckeye sites 451-1,3,4,& 5 Delete: Adit Culverts Add: Adit/Shaft Closure (659 cy)					1400.00 8.45	< 5600.00 > 5568.55
9	Buckeye site 451-2 Delete: 180 L.F. Fence 1 Hazard Sign Add: Shaft Closure (115 cy)					4.90 14.85 8.45	< 882.00 > < 14.85 > 971.75

Item No.	Description of Changes Estimated Quantities and Units	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip.	Misc.	Total Unit Cost	
10	Buckeye site 451-6,7,& 10 Add: Adit/Shaft Closure (183 cy)					8.45	1546.35
11	Buckeye site 451-8 Delete: Specialty Grate Add: Shaft Closure (58 cy)					1950.00 8.45	<1950.00> 490.10
12	SE SE Section 18 site 440-1 Delete: Adit Culvert Add: Adit Closure (28 cy)					1400.00 8.45	<1400.00> 236.60
13	NW NW Section 27 site 291-2 Delete: Adit Culvert					1400.00	<1400.00>
14	North Fk Goodrich sites 288-2,3,4,6,8,9,10,15,16,&17 Delete: Adit Culverts					1400.00	<14000.00>
15	Keynote site 469-1 Delete: Adit Culvert					1400.00	<1400.00>
16	SE NW Section 27 sites 289-1 & 2 Delete: Adit Culverts					1400.00	<2800.00>
17	SW NE Section 27 site 303-1 Delete: Adit Culvert					1400.00	<1400.00>
18	Golden Reef site 340-1 Delete: 80 L.F. Fence 1 Hazard Sign					4.90 14.85	<392.00> <14.85>
19	Geel site 345-1 & 2 Delete: 225 L.F. Fence 2 Hazard Signs Add: Shaft Closure (20 & 97 cy)					4.90 14.85 8.45	<1102.50> <29.70> 988.65
20	Brimstone site 467-9,10,& 11 Delete: Cable Nets Add: Adit Culverts					800.00 1400.00	<2400.00> 5200.00
21	Antelope Gulch #2 site 326-5 Delete: Adit Culvert					1400.00	<1400.00>
22	Kentucky site 466-1 Add: Adit Culvert					1400.00	1400.00
23	Dry Gulch South site 282-25 Delete: Specialty Grate Add: Owner-Provided Grate					1950.00 1750.00	<1950.00> 1750.00
24	Antelope Gulch site 327-1 Delete: 120 L.F. Fence 1 Hazard Sign					4.90 14.85	<588.00> <14.85>
25	Union site 440-4 Delete: 200 L.F. Fence 1 Hazard Sign					4.90 14.85	<980.00> <14.85>
26	Flamm Ranch site 456-2 & 3 Delete: 240 L.F. Fence 2 Hazard Signs					4.90 14.85	<1176.00> <29.70>

Item No.	Description of Changes Estimated Quantities and Units	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip.	Misc.	Total Unit Cost	
27	Rodewald sites 457-6,7,& 8 Delete: Adit Seal Add: Adit Closure (2,3,& 5 cy)					425.00 8.45	<1275.00> 84.50
28	Whiskey Jack site 465-2 & 3 Delete: 220 L.F. Fence 2 Hazard Signs					4.90 14.85	<1078.00> <29.70>
29	Kentucky site 466-5 Delete: 150 L.F. Fence 1 Hazard Sign					4.90 14.85	<735.00> <14.85>
30	Brimstone site 467-1 Delete: Adit Culvert Add: Adit Masonry Door					1400.00 1200.00	<1400.00> 1200.00
31	Adit Culvert Hatch Covers (20 ea.)					145.00	2900.00
32	Union site helicopter prep. and mobilization					L.S	750.00
33	Agreement between Scott Const. and DSL/AMRB on anticipated profits.					L.S	10950.00
TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC.							<21,500.35> \$ <20,500.85>
OVERHEAD & PROFIT @ _____ %							Incl.
GRAND TOTAL - THIS CHANGE ORDER							<21,500.35> \$ <20,500.85>

Original Contract Price

\$ 196,974.90

Current Contract Price Adjusted by Previous Change Order

\$ 202,187.75

Cost this Change Order (+ or -)

\$ <21,500.35>
\$ <20,500.85>

New Contract Price including this Change Order

\$ 181,686.90

180,286.70

48
3/6/

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decreased) by _____ calendar days.

The date for completion of all work will be _____.

Description and Justification for Change:

1. Adequate size grate available from Owner inventory.
2. Unable to access site with equipment.
3. Site dropped from contract due to natural abatement.
4. Sites dropped from contract at direction of DSL/AMRB.
5. Unable to access site with equipment.
- 6,7,8,& 9. Consent obtained for backfill closure.
10. Additional site identified and consent obtained for backfill closure.
- 11 & 12. Consent obtained for backfill closure.
13. Site accessed with equipment and adit closure performed.
14. Site dropped from contract at direction of DSL/AMRB.
15. Site dropped from contract due to natural abatement.
- 16,17,& 18. Sites dropped from contract at direction of DSL/AMRB.
19. Consent obtained for backfill closure.
20. Fractured, unstable rock creating unsafe working conditions.
21. Site dropped from contract due to natural abatement.
22. Additional site identified within area of consent.
23. Adequate size grate available from Owner inventory.
- 24,25,& 26. Sites dropped from contract at direction of DSL/AMRB.
27. Sites accessed with equipment and backfill closure performed.
- 28 & 29. Sites dropped from contract at direction of DSL/AMRB.
30. Claimant requested change.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bonds or Bonds is hereby ~~increased~~ ^{DECREASED} by \$ 20,500.85 (100% of the Change Order amount) and the penalty of the applicable Labor and Material Bond or Bonds is hereby ~~increased~~ ^{DECREASED} by \$ 20,500.85 (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT
FLYNN INSURANCE AGENCY

SURETY



GORDON D. MCMANUS

TRANSAMERICA PREMIER INSURANCE COMPANY

By:

Seal

JOHN D. LEAF
ATTORNEY-IN-FACT

Recommended by:


Engineer

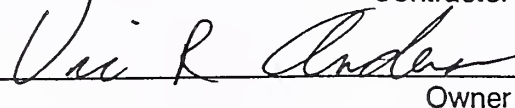
8/6/93
Date

Accepted by:


Contractor

7-28-93
Date

Approved by:


Owner

8/9/93
Date

CHANGE ORDER

ORDER NO. 3

PROJECT TITLE: Northern Madison One Reclamation Project

MONT A/E or DSL-AMRB: 92-005

CONTRACT DATE: September 18, 1992

OWNER: Department of State Lands/Abandoned Mine Reclamation Bureau

CONTRACTOR: Scott Construction Co., Inc., P.O. Box 777, East Helena, MT 59635

Change Orders must be accompanied by an Itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

Item No.	Description of Changes Estimated Quantities and Units	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip	Misc	Total Unit Cost	
1	Standard/Ruby 298-1 Add: Shaft Closure (25 cy)					8.45	211.25
2	Standard/Ruby 298-2 Add: Shaft Closure (35 cy)					8.45	295.75
2	Standard/Ruby 298-3 Add: Adit Closure (6 cy)					8.45	50.70
4	Standard/Ruby 298-4 Add: Shaft Closure (110 cy)					8.45	929.50
5	Standard/Ruby 298-5 Add: Shaft Closure (209 cy)					8.45	1766.05
2	Standard/Ruby 298-6 Add: Shaft Closure (15 cy)					8.45	126.75
7	Standard/Ruby 298-7 Add: Shaft Closure (147 cy)					8.45	1242.15
8	Standard/Ruby 298-8 Add: Shaft Closure (137 cy)					8.45	1157.65
9	Standard/Ruby 298-9 Add: Shaft Closure (40 cy)					8.45	338.00
10	Standard/Ruby 298-10 Add: Shaft Closure (15 cy)					8.45	126.75
11	Standard/Ruby 298-11 Add: Shaft Closure (30 cy)					8.45	253.50

Item No.	Description of Changes Estimated Quantities and Units	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip	Misc	Total Unit Cost	
12	Standard/Ruby 298-12 Add: Shaft Closure (42 cy)					8.45	354.90
13	Standard/Ruby 298-13 Add: Shaft Closure (41 cy)					8.45	346.45
14	Standard/Ruby 298-14 Add: Shaft Closure (42 cy)					8.45	354.90
15	Standard/Ruby 298-15 Add: Shaft Closure (41 cy)					8.45	346.45
16	Standard/Ruby 298-16 Add: Shaft Closure (113 cy)					8.45	954.85
17	Standard/Ruby 298-17 Add: Adit Closure (42 cy)					8.45	354.90
18	Standard/Ruby Seed, fertilize, & mulch sites over 50 cy per letter of 6/11/93 (5 sites)					50.00	250.00
19	Cat 931 Dozer/Loader 2 Hours Rental Time to/from Standard/Ruby sites					48.50	97.00
20	Sheridan View 321-1 & 5 Add: Owner-Provided Steel Grates					1750.00	3500.00
TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC.						\$13,057.50	
OVERHEAD & PROFIT @ _____ %						Incl.	
GRAND TOTAL - THIS CHANGE ORDER						\$13,057.50	

Original Contract Price	\$ 196,974.90
Current Contract Price Adjusted by Previous Change Order	\$ 180,286.90
Cost this Change Order (+ or -)	\$ 13,057.50
New Contract Price Including this Change Order	\$ 193,344.40

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decreased) by 12 calendar days.

The date for completion of all work will be September 1, 1993.

Description and Justification for Change:

1. All sites added to contract at direction of DSL/AMRB.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bonds or Bonds is hereby increased by \$_____ (100% of the Change Order amount) and the penalty of the applicable Labor and Material Bond or Bonds is hereby increased by \$_____ (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: _____

Seal

Recommended by: Jeremiah B. Bowser 8/31/93
Engineer Date
Accepted by: Patti Scott 8-31-93
Contractor Date
Approved by: Vic R. Andersen 9-7-93
Owner Date

CHANGE ORDER

ORDER NO. 4

PROJECT TITLE: Northern Madison One Reclamation Project

MONT A/E or DSL-AMRB: 92-005

CONTRACT DATE: September 18, 1992

OWNER: Department of State Lands/Abandoned Mine Reclamation Bureau

CONTRACTOR: Scott Construction Co., Inc., P.O. Box 777, East Helena, MT 59635

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

Item No.	Description of Changes Estimated Quantities and Units	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip	Misc.	Total Unit Cost	
1	Canyon Campground 92-2 Delete: Adit Seal Add: Specialty Gate					425.00 1950.00	<425.00> 1950.00
2	Smelter Mtn. 281-1 Delete: Adit Culvert					1400.00	<1400.00>
3	Smelter Mtn. 281-2 Delete: Cable Net					800.00	<800.00>
4	Smelter Mtn. 281-3 Delete: Cable Net					800.00	<800.00>
5	Smelter Mtn. 281-5 Delete: Cable Net					800.00	<800.00>
6	Smelter Mtn. 281-6 Delete: Cable Net					800.00	<800.00>
7	Dry Gulch South 282-5 Delete: Adit Seal Add: Adit Closure (23 cy)					425.00 8.45	<425.00> 194.35
8	Dry Gulch South 282-13 Delete: Specialty Gate Add: Owner-provided Gate					1950.00 1750.00	<1950.00> 1750.00
9	Dry Gulch South 282-14 Delete: Shaft Seal Farm Fence (200 lf) Add: Shaft Closure (62 cy)					425.00 4.90 8.45	<425.00> <980.00> 523.90
10	N. Fk. Goodrich 288-1 Delete: Adit Seal					425.00	<425.00>

Item No.	Description of Changes Estimated Quantities and Units	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip	Misc.	Total Unit Cost	
17	N. Fk. Goodrich 288-5 Delete: Adit Closure (5 cy)					8.45	<42.25>
18	N. Fk. Goodrich 288-7 Delete: Adit Closure (5 cy)					8.45	<42.25>
13	N. Kf. Goodrich 288-10 Delete: Specialty Gate					1950.00	<1950.00>
14	N. Fk. Goodrich 288-11 Add: Shaft Closure (135 cy)					8.45	<1140.75>
15	Leiter 296-1 Delete: Farm Fence (200 lf) Hazard Signs (2)					4.90 14.85	<980.00> <29.70>
16	Leiter 296-2 Delete: Adit Seal					425.00	<425.00>
17	Leiter 296-3 Delete: Adit Closure (5 cy)					8.45	<42.25>
18	Leiter 296-4 Delete: Adit Closure (10 cy)					8.45	<84.50>
19	Leiter 296-5 Delete: Adit Seal					425.00	<425.00>
20	Leiter 296-6 Delete: Shaft Closure (35 cy)					8.45	<295.75>
21	Dry Gulch North 307-1 Delete: Cable Net					800.00	<800.00>
22	N. Fk. Antelope Cr. 319-1 Delete: Adit Culvert Add: Adit Closure (15 cy)					1400.00 8.45	<1400.00> 126.75
23	Ft. Knox 332-1 Delete: Farm Fence (140 lf) Hazard Signs (1)					4.90 14.85	<686.00> <14.85>
24	Ft. Knox 332-3 Delete: Farm Fence (120 lf) Hazard Signs (1)					4.90 14.85	<588.00> <14.85>
25	Hunts Claim 336-3 Delete: Farm Fence (200 lf) Hazard Signs (1)					4.90 14.85	<980.00> <14.85>
26	Union 441-1 and 2 Delete: Farm Fence (310 lf) Hazard Signs (1) Add: Specialty Gate					4.90 14.85 1950.00	<1274.00> <29.70> 1950.00
27	Change Order No. 3 Delete: Cat 931 2 Hours Rental Time					48.50	<97.00>

Item No.	Description of Changes Estimated Quantities and Units	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip.	Misc.	Total Unit Cost	
28	Spring Park Cr. Delete: Adit Culvert					1400.00	<1400.00>
29	Error on Change Order #2 Item No. 18 Delete one additional Hazard Sign					14.85	<14.85>
30	Error on Change Order # 2 Item No. 20 (3 adit culverts @ \$1400.00 = \$ 4200.00)						<1,000.00>
31	Jane & Nash Site 364-1 originally accounted as Original Work Completed. Adjust as Change Order Work Completed. Delete: Cable Net Add: Adit Seal					800.00 425.00	<375.00>
	RECONCILIATION OF PLAN QUANTITIES						
32	Adit and Shaft Closure Original Contract Qty. 5325 cy Deleted by Change Order 230 cy Adjusted Original Qty. 5095 cy Total Backfill Installed 5250 cy Less Adj. Orig. Qty. 5095 cy 155 cy					8.45	1309.75
TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC.						\$ <15,571.80>	
OVERHEAD & PROFIT @ _____ %						Incl.	
GRAND TOTAL - THIS CHANGE ORDER						\$ <15,571.80>	

Original Contract Price	\$ 196,974.90
Current Contract Price Adjusted by Previous Change Order	\$ 193,344.40
Cost this Change Order (+ or -)	\$ <15,571.80>
New Contract Price including this Change Order	\$ 177,772.60

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decreased) by _____ calendar days.

The date for completion of all work will be September 1, 1993.

Description and Justification for Change:

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bonds or Bonds is hereby ^{DECREASED} increased by \$15,571.80 (100% of the Change Order amount) and the penalty of the applicable Labor and Material Bond or Bonds is hereby increased by \$15,571.80 (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

FLYNN INSURANCE AGENCY

TRANSAMERICA PREMIER INSURANCE COMPANY

GORDON D. MCMANUS

By: _____

Seal

JOHN D. LEAF
ATTORNEY-IN-FACT

Recommended by: Jeremiah B. Bowser
Engineer

11/9/93

Date

Accepted by: Patricia Scott, Pres.
Contractor

10-27-93

Date

Approved by: John Heath
Owner

11/12/93
Date

APPENDIX E

**APPROVED PAYMENT REQUESTS, CERTIFICATES OF COMPLETION AND
ACCEPTANCE, AND AFFIDAVIT ON BEHALF OF CONTRACTOR
NORTHERN MADISON ONE RECLAMATION PROJECT**

ORIGINAL CONTRACT WORK COMPLETED

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
1.	Mobilization	1.0	5,000.00	-0-	1.0	1.0	5,000.00	5,000.00
2.	Debris cleanup	1.0	4,500.00	-0-	-0-	-0-	-0-	-0-
3.	Adit and shaft closure	5,325 cy	8.45	-0-	4,365	4,365	36,884.25	36,884.25
4.	Adit and shaft seal	55	425.00	-0-	28	28	11,900.00	11,900.00
5.	Adit culvert	52	1,400.00	-0-	-0-	-0-	-0-	-0-
6.	Adit masonry door	2	1,200.00	-0-	-0-	-0-	-0-	-0-
7.	Steel grate shaft-systems specialty	6	1,950.00	-0-	1	1	1	1,950.00
8.	Steel grate shaft systems owner provided	1	1,750.00	-0-	-0-	-0-	-0-	-0-
9.	Cable Net closure	10	800.00	-0-	-0-	-0-	-0-	-0-
10.	Install owner provided signs	19	14.85	-0-	-0-	-0-	-0-	-0-
11.	Farm fence	2,535 LF	4.90	-0-	-0-	-0-	-0-	-0-
12.	Fertilizing, seeding & mulching	1.0	2,250.00	-0-	-0-	-0-	-0-	-0-
13.	Canyon campground demolition	1.0	7,500.00	-0-	1.0	1.0	7,500.00	7,500.00
	Subtotal							63,234.25
	Change Order Work Completed							\$7,549.10
	Materials on Site (Attach Schedule)	--	--	\$	\$	— >	\$	
CHANGE ORDER TOTAL							\$	\$70,783.35

CHANGE ORDER WORK COMPLETED

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
3.	Adit and shaft closure 292-20 Deutschland 282-17 Dry Gulch South 286-4 Smith Reservoir 286-5 Smith Reservoir 286-10 Smith Reservoir		8.45		83 cy 75 cy 60 cy 30 cy 30 cy	83 cy 75 cy 60 cy 30 cy 30 cy		701.35 633.75 507.00 253.50 253.50
4.	Adit or Shaft Seal 292-12 Deutschland 292-13 Deutschland 282-16 Dry Gulch South 282-27 Dry Gulch South		425.00		1 1 1 1	1 1 1 1		425.00 425.00 425.00 425.00
8.	Steel Grate Shaft Systems Owner Provided 157-1 Ellen Marshall 157-2 Ellen Marshall		1,750.00		1 1	1 1		1,750.00 1,750.00
	Materials on Site (Attach Schedule)	--	--	\$	\$	— >		
TOTAL							\$	\$7,549.10

PAYMENT REQUEST NO. 2

FROM 12-1-92 TO 7-9-93

PROJECT TITLE: Northern Madison One Reclamation Project

LOCATION: Madison County MONT A/E or DSL-AMRB: 92-005

NAME OF CONTRACTOR: Scott Construction, Inc.

ADDRESS: P.O. Box 777, East Helena, MT 59635

SUMMARY OF PROJECT STATUS

Amount of Original Contract

\$ 196,974.90

Change Order No. 1

\$ 5,212.85

Change Order No. 2

~~\$20,500.85~~ <21,900.85>

Change Order No. _____

\$ _____

Amount of Approved Change Order(s)

\$ _____

<16,633.00>
<15,288.00>

TOTAL CONTRACT AMOUNT

\$ _____

\$181,636.90

180,236.90

Pay Request No.	Amount of Request
1	\$ 63,705.02
2	\$ 62,660.92

Total Contract Amount Completed to Date

\$ 140,406.60

Less Retainage (10 %)

\$ 14,040.66

TOTAL AMOUNT EARNED TO DATE

\$ 126,365.94

Less Previous Payments

\$ 63,705.02

AMOUNT DUE THIS PAYMENT

\$ 62,660.92

Less 1% Tax

\$ 626.60

TOTAL DUE CONTRACTOR

\$ 62,034.32

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

APPROVED BY:

Scott Construction

Contractor

By [Signature]

Date 7-28-93

RECOMMENDED BY:

Chen-Northern, Inc.

Engineer

By [Signature]

Date 8/6/93

Dept. of State Lands, Abandoned Mine Reclamation

Bureau

Owner

By _____

Date

RESP. CNTR.

30123

OBI. EXP.

1 2121

APPROVAL

[Signature]

DATE

8-9-93

ORIGINAL CONTRACT WORK COMPLETED

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
1.	Mobilization	1.0	5,000.00	1	-0-	1	5,000.00	-0-
2.	Debris cleanup	1.0	4,500.00	-0-	-0-	-0-	-0-	-0-
3.	Adit and shaft closure	5,325 cy	8.45	4,365	795	5,160	43,602.00	6,717.75
4.	Adit and shaft seal	55	425.00	28	12	40	17,000.00	5,100.00
5.	Adit culvert	52	1,400.00	-0-	14	14	19,600.00	19,600.00
6.	Adit masonry door	2	1,200.00	-0-	2	2	2,400.00	2,400.00
7.	Steel grate shaft systems specialty	6	1,950.00	1	0	1	1,950.00	-0-
8.	Steel grate shaft systems owner provided	1	1,750.00	-0-	-0-	-0-	-0-	-0-
9.	Cable Net closure	10	800.00	-0-	-0-	-0-	-0-	-0-
10.	Install owner provided signs	19	14.85	-0-	-0-	-0-	-0-	-0-
11.	Farm fence	2,535 LF	4.90	-0-	-0-	-0-	-0-	-0-
12.	Fertilizing, seeding & mulching	1.0	2,250.00	-0-	-0-	-0-	-0-	-0-
13.	Canyon campground demolition	1.0	7,500.00	1	-0-	1	-0-	-0-
	Subtotal							33,817.75
	Change Order Work Completed							35,805.50
	Materials on Site (Attach Schedule)							
TOTAL								\$ \$69,623.25

CHANGE ORDER WORK COMPLETED

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
3.	Adit and shaft closure		8.45					
	Brandon 295-1				5 cy	5 cy		42.25
	Brandon 295-2				5 cy	5 cy		42.25
	Geel 345-1				20 cy	20 cy		169.00
	Geel 345-2				97 cy	97 cy		819.65
	SE SE Section 18 440-1				28 cy	28 cy		236.60
	Buckeye 451-1				48 cy	48 cy		405.60
	Buckeye 451-2				115 cy	115 cy		971.75
	Buckeye 451-3				166 cy	166 cy		1,402.70
	Buckeye 451-4				430 cy	430 cy		3,633.50
	Buckeye 451-5				15 cy	15 cy		126.75
	Buckeye 451-6				130 cy	130 cy		1,098.50
	Buckeye 451-7				5 cy	5 cy		42.25
	Buckeye 451-8				58 cy	58 cy		490.10
	Buckeye 451-10				48 cy	48 cy		405.60
	Brandon 453-1				10 cy	10 cy		84.50
	Rodewald 457-6				2 cy	2 cy		16.90
	Rodewald 457-7				3 cy	3 cy		25.35
	Rodewald 457-8				5 cy	5 cy		42.25
4.	Adit or Shaft Seal		425.00					
	Tidal Wave 287-2				1	1		425.00
	Vanmeter 474-6				1	1		425.00
5.	Adit Culvert		1,400.00					
	Kentucky 466-1				1	1		1,400.00
	Brimstone 467-9				1	1		1,400.00
	Brimstone 467-10				1	1		1,400.00
	Brimstone 467-11				1	1		1,400.00
6.	Adit Masonry Door		1,200.00					
	Brimstone 467-1				1	1		1,200.00
8.	Steel Grate - Owner Provided		1,750.00					
	Dry Gulch South 282-25				1	1		1,750.00
	Tidal Wave 287-5				1	1		1,750.00
	Culvert Hatches		145.00		20	20		2,900.00
	Union Site - Helicopter prep. and mobilization		L.S		1	1		750.00
	Scott Const. - DSL agreement on anticipated profits.		L.S		1	1		10,950.00
	Materials on Site (Attach Schedule)	--	--	\$	\$	— >		
CHANGE ORDER TOTAL								\$ \$35,805.50

FINAL
PAYMENT REQUEST NO. 3

FROM 7-10-93 TO 9-30-93

PROJECT TITLE: Northern Madison One Reclamation Project

LOCATION: Madison County MONT A/E or DSL-AMRB: 92-005

NAME OF CONTRACTOR: Scott Construction, Inc.

ADDRESS: P.O. Box 777, East Helena, MT 59635

SUMMARY OF PROJECT STATUS

Amount of Original Contract \$196,974.90

Change Order No. 1 \$ 5,212.85

Change Order No. 2 ~~\$21,900.85~~

Change Order No. 3 \$ 13,057.50

Change Order No. 4 \$ <15,571.80>

Amount of Approved Change Order(s) \$ <19,105.30>

TOTAL CONTRACT AMOUNT **\$ 177,772.60**

Pay Request No.	Amount of Request
1	\$ 63,705.02
2	\$ 62,660.92
3	\$ 51,503.66

Total Contract Amount Completed to Date

Less Retainage (10 %)

TOTAL AMOUNT EARNED TO DATE

Less Previous Payments

AMOUNT DUE THIS PAYMENT

Less 1% Tax

TOTAL DUE CONTRACTOR

\$ 177,772.60

\$ -0-

\$ 177,772.60

\$ 126,365.94

\$ 51,406.66

\$ 514.07

\$ 50,892.59

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

APPROVED BY:

Scott Construction

Contractor

By Patti Scott, Pres.

Date 10-27-93

RECOMMENDED BY:

Chen-Northern, Inc.

Engineer

By Jeremiah B. Brouse

Date 10/27/93

Dept. of State Lands, Abandoned Mine Reclamation

Bureau

Owner

By _____

Date _____

RESP. CNTR.	<u>3-11-7</u>
OBJ. EXP.	<u>2151</u>
APPROVAL	<u>Doc R. [Signature]</u>
DATE	<u>11-1-93</u>

ORIGINAL CONTRACT WORK COMPLETED

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
1.	Mobilization	1.0	5,000.00	1	-0-	1	5,000.00	-0-
2.	Debris cleanup	1.0	4,500.00	-0-	-1-	-1-	4,500.00	4,500.00
3.	Adit and shaft closure	5,325 cy	8.45	795	90	5,250	44,362.50	760.50
4.	Adit and shaft seal	55	425.00	12	2	42	17,850.00	850.00
5.	Adit culvert	52	1,400.00	14	5	19	26,600.00	7,000.00
6.	Adit masonry door	2	1,200.00	2	2	2	2,400.00	-0-
7.	Steel grate shaft systems specialty	6	1,950.00	0	0	1	1,950.00	-0-
8.	Steel grate shaft systems owner provided	1	1,750.00	-0-	-1-	-1-	1,750.00	1,750.00
9.	Cable Net closure	19	800.00	-0-	-1-	-1-	800.00	800.00
10.	Install owner provided signs	19	14.85	-0-	-0-	-0-	-0-	-0-
11.	Farm fence	2,535 LF	4.90	-0-	-0-	-0-	-0-	-0-
12.	Fertilizing, seeding & mulching	1.0	2,250.00	-0-	-1-	-1-	2,250.00	2,250.00
13.	Canyon campground demolition	1.0	7,500.00	-0-	-0-	-1-	7,500.00	-0-
	Subtotal						114,962.50	17,910.50
	Change Order #1						7,549.10	-0-
	Change Order #2						35,805.50	-0-
	Change Order #3						13,057.50	13,057.50
	Change Order #4						6,398.00	6,398.00
	Materials on Site (Attach Schedule)							
TOTAL							\$177,772.60	\$ 37,366.00

CHANGE ORDER WORK COMPLETED

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
1.	Mobilization (Not Charged) Standard/Ruby Sites Cat 931	2	48.50				<97.00>	<97.00>
3.	Adit and shaft closure Dry Gulch South 282-5 Dry Gulch South 282-14 N. Fk. Antelope Cr. 319-1		8.45		23 cy 62 cy 15 cy	23 cy 62 cy 15 cy	194.35 523.90 126.75	194.35 523.90 126.75
7.	Steel Grate - Specialty Canyon Camp. 92-2 Union 441-1		1,950.00		1 1	1 1	1,950.00 1,950.00	1,950.00 1,950.00
8.	Steel Grate - Owner Provided Dry Gulch South 282-13		1,750.00		1	1	1,750.00	1,750.00
	Materials on Site (Attach Schedule)	--	--	\$	\$	→		
CHANGE ORDER TOTAL							\$6,398.00	\$ 6,398.00

CERTIFICATE OF ACCEPTANCE

TO: Montana Department of State Lands, Abandoned Mine Reclamation Bureau OWNER

PROJECT TITLE: Northern Madison One Reclamation Project

MONT A/E or DSL-AMRB: 92-005

CONTRACT DATE: September 18, 1992

LOCATION: Madison County, MT

PROJECT OR PART SHALL INCLUDE: Closure of hazardous mine openings

CONTRACTOR: Scott Construction

ADDRESS: P.O. Box 777
East Helena, MT 59635

TELEPHONE NO: 227-5740

FINAL ACCEPTANCE DATE: Sept. 3, 1993

DSL INSPECTION DATE: August 12, 1993

ENGINEER: Chen-Northern, Inc.

Jeremiah B. Bowser, P.E.

PERFORMANCE BOND NO: TPI-3787900

DATE OF BOND: September 16, 1992

SURETY: Transamerica Premier Insurance

MONTANA AGENT: Flynn Insurance Agency

ADDRESS: P.O. Box 711

Great Falls, MT 59403

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be totally completed and accepted on the above date.

ENGINEER:

Chen-Northern, Inc.

By Jeremiah B. Bowser 11/4/93
Authorized Representative Date

The Contractor accepts the above Certificate of Acceptance and agrees to abide by the conditions of the one-year warranty period which began on the substantial completion date.

CONTRACTOR:

Scott Construction Inc.

By Pat Scott, Pres. 11-1-93
Authorized Representative Date

The Owner accepts the Project as totally complete, and final payment is due to the Contractor as provided in the contract documents.

OWNER:

By V. R. Adams 11-5-93
Authorized Representative Date

AFFIDAVIT ON BEHALF OF CONTRACTOR

STATE OF Montana)
COUNTY OF Lewis & Clark : ss
DATE: 11-2-93

MONT A/E or DSL-AMRB: 92-005

I certify to the best of my knowledge and belief that all work has been performed and materials supplied in strict conformance with the terms and conditions of the corresponding contract documents between Montana Dept. State Lands, the Owner, and Scott Construction, the Contractor, dated September 18, 1992 for the Northern Madison One Reclamation Project Project, Mont A/E or DSL-AMRB 92-005, and further declare that all bills for materials, supplies, utilities, and for all other things furnished or caused to be furnished by the above-named Contractor and used in the execution of the above Contract have been fully paid, and there are no unpaid claims or demands of State Agencies, subcontractors, materialmen, mechanics, laborers or any others resulting from or arising out of work done or ordered to be done by said Contractor under the above-identified Contract.

In consideration of the prior and final payments made and all payments made for authorized changes, the Contractor releases and forever discharges the Owner from any and all obligations and liabilities arising by virtue of said Contract and authorized changes between the parties hereto, either verbal or in writing, and any and all claims and demands of every kind and character whatsoever against the Owner, arising out of or in any way relating to said Contract, and authorized changes.

This statement is made for the purpose of inducing the Owner to make Final Payment under the terms of the Contract, relying on the truth and statements contained therein.

Dated this 2 day of Nov, 1993 at Helena, Montana.

CONTRACTOR:

Scott Construction

By: Pat Scott
Title: Pres

Subscribed and sworn to before me this 2 day of Nov, 1993

(SEAL)

Dubie Hargland
Notary Public for the State of Montana
Residing at Helena
My commission expires 2-9-96

ok J Amy 11/5/93

CONTRACTOR'S CERTIFICATE OF COMPLETION

TO (Owner): State of Montana
Department of State Lands
Abandoned Mine Reclamation Bureau

DATE: 11/2/93
PROJECT TITLE: Northern Madison One
Reclamation Project

ATTN: Engineer Jeremiah B. Bowser
FROM: Scott Construction

MONT A/E or DSL-AMRB: 02-005
CONTRACT DATE: September 18, 1992

(Firm or Corporation)

This is to certify that I, Patti Scott, am an authorized official of
Scott Construction Inc., working in the capacity of
President and have been properly authorized by said firm or corporation to
sign the following statements pertaining to the subject contract:

I know of my own personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the Contract Plans and Specifications.

The contract work is now complete in all parts and requirements and ready for your substantial completion inspection.

I understand that neither the determination of the Engineer that the work is complete nor the acceptance thereof by the Owner shall operate as a bar to claim against the Contractor under the terms of the guarantee provisions of the Contract Documents.

CONTRACTOR: Scott Construction Inc

By: Patti Scott, Pres
Title

Distribution: 1. Project Manager
2. Field Office
3. File

ok J Chm
11/5/93

APPENDIX F

PROJECT RECONCILIATION NORTHERN MADISON ONE RECLAMATION PROJECT

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HMO No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
71-1	Shoemaker	Grate (10x10)	1	Grate (10x10)	1			1,950.00
92-1	Canyon Campground	Adit Closure	15	Adit Closure	15			126.75
92-2	Canyon Campground	Shaft Seal	1	Spec. Grate	1			1,950.00
92-3	Canyon Campground	Debris Cleanup	1	Debris Cleanup	1			7,500.00
157-1	Ellen Marshall	Steel Grate	1	16x16 Grate	1			1,750.00
157-2	Ellen Marshall	Steel Grate	1	16x16 Grate	1			1,750.00
276-1	Moffat	Grate (24x32)	1	Grate	1			1,750.00
276-2	Moffat	Adit Closure	15	Closure	15			126.75
282-1	Dry Gulch South	Adit Closure	50	Adit Closure	50			422.50
282-2	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-3	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-4	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-5	Dry Gulch South	Adit Seal	1	Closure	23			194.35
282-6	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-7	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-8	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-9	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-10	Dry Gulch South	Adit Closure	15	Adit Closure	15			126.75
282-11	Dry Gulch South	Adit Closure	30	Adit Closure	30			253.50
282-12	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-13	Dry Gulch South	Grate (24x24)	1	Grate (24x24)	1			1,750.00
282-14	Dry Gulch South	Shaft Seal	1	Closure	62			523.90
282-15	Dry Gulch South	Shaft Closure	35	Shaft Closure	35			295.75

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HMO No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
282-16	Dry Gulch South	Shaft Closure	25	Shaft Closure	25			211.25
282-17	Dry Gulch South	Shaft Seal	1	Shaft Closure	75			633.75
282-18	Dry Gulch South	Shaft Closure	400	Shaft Closure	400	Debris Cleanup	1	3,380.00
282-19	Dry Gulch South	Shaft Closure	825	Shaft Closure	825			6,971.25
282-20	Dry Gulch South	Adit Closure	250	Adit Closure	250			2,112.50
282-22	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-23	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-24	Dry Gulch South	Adit Closure	225	Adit Closure	225			1,901.25
282-25	Dry Gulch South	Grate (16x16)	1	Grate (16x16)	1			1,750.00
282-26	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
282-27	Dry Gulch South	Adit Seal	1	Adit Seal	1			425.00
284-1	Smith Reservoir	Adit Closure	5	Adit Closure	30			253.50
284-2	Smith Reservoir	Adit Closure	5	Adit Closure	140	None		1,183.00
286-1	Smith Reservoir South	Adit Closure	55	Adit Closure	55			464.75
286-3	Smith Reservoir South	Adit Seal	1	Adit Seal	1	Debris Cleanup	1	425.00
286-4	Smith Reservoir South	Adit Seal	1	Adit Closure	60			507.00
286-5	Smith Reservoir South	Adit Seal	1	Adit Closure	30			253.50
286-6	Smith Reservoir South	Adit Closure	10	Adit Closure	15			126.75
286-7	Smith Reservoir South	Adit Seal	1	Adit Seal	1			425.00
286-8	Smith Reservoir South	Adit Seal	1	Adit Seal	1			425.00
286-9	Smith Reservoir South	Adit Seal	1	Adit Seal	1			425.00
286-10	Smith Reservoir South	Adit Seal	1	Adit Closure	30			253.50
286-11	Smith Reservoir South	Shaft Closure	20	Shaft Closure	70			591.50

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HM0 No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
287-1	Tidal Wave	Adit Closure	15	Adit Closure	20			169.00
287-2	Tidal Wave	Adit Closure	5	Adit Seal	1			425.00
287-3	Tidal Wave	Adit Closure	5	Adit Closure	5			42.25
287-4	Tidal Wave	Culvert (3 ft.)	1	Culvert	1			1,400.00
287-5	Tidal Wave	Grate (10x10)	1	Grate (8x12)	1			1,750.00
287-6	Tidal Wave	Shaft Closure	125	Shaft Closure	125			1,056.25
287-7	Tidal Wave	Adit Closure	60	Adit Closure	60			507.00
287-8	Tidal Wave	Shaft Closure	15	Shaft Closure	15			126.75
287-9	Tidal Wave	Adit Seal	1	Adit Seal	1			425.00
287-10	Tidal Wave	Adit Seal	1	Adit Seal	1			425.00
287-11	Tidal Wave	Adit Closure	10	Adit Closure	15			126.75
287-12	Tidal Wave	Adit Closure	5	Adit Closure	15			126.75
287-13	Tidal Wave	Adit Closure	10	Adit Closure	10			84.50
287-14	Tidal Wave	Cable Net	1	Cable Net	1			800.00
287-15	Tidal Wave	Shaft Closure	150	Shaft Closure	150			1,267.50
287-16	Tidal Wave	Shaft Closure	30	Shaft Closure	30			253.50
287-17	Tidal Wave	Shaft Seal	1	Shaft Seal	1			425.00
287-19	Tidal Wave	Adit Seal	1	Adit Seal	1			425.00
287-20	Tidal Wave	Adit Seal	1	Adit Seal	1			425.00
287-21	Tidal Wave	Shaft Seal	1	Shaft Seal	1			425.00
287-22	Tidal Wave	Adit Seal	1	Adit Seal	1			425.00
288-12	North Fk Goodrich	Adit Seal	1	Adit Seal	1			425.00
288-13	North Fk Goodrich	Adit Seal	1	Adit Seal	1			425.00

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HM0 No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
288-14	North Fk Goodrich	Adit Seal	1	Adit Seal	1			425.00
289-3	SE NW Section 27	Adit Seal	1	Adit Seal	1			425.00
289-4	SE NW Section 27	Adit Seal	1	Adit Seal	1			425.00
289-5	SE NW Section 27	Adit Seal	1	Adit Seal	1			425.00
289-6	SE NW Section 27	Adit Seal	1	Adit Seal	1			425.00
292-1	Deutschland	Shaft Closure	100	Shaft Closure	110			929.50
292-2	Deutschland	Shaft Closure	375	Shaft Closure	375			3,168.75
292-3	Deutschland	Shaft Closure	400	Shaft Closure	400			3,380.00
292-4	Deutschland	Shaft Closure	100	Shaft Closure	100			845.00
292-6	Deutschland	Shaft Closure	600	Shaft Closure	600			5,070.00
292-7	Deutschland	Shaft Closure	50	Shaft Closure	50			422.50
292-8	Deutschland	Adit Closure	15	Shaft Closure	15			126.75
292-9	Deutschland	Adit Closure	5	Adit Closure	5			42.25
292-10	Deutschland	Adit Closure	5	Adit Closure	5			42.25
292-11	Deutschland	Shaft Closure	300	Shaft Closure	300			2,535.00
292-12	Deutschland	Adit Closure	15	Adit Seal	1	None		425.00
292-13	Deutschland	Adit Closure	10	Adit Seal	1	None		425.00
292-14	Deutschland	Adit Closure	45	Adit Closure	45			380.25
292-16	Deutschland	Adit Seal	1	Adit Seal	1			425.00
292-17	Deutschland	Adit Closure	135	Adit Closure	40			338.00
292-18	Deutschland	Adit Closure	50	Adit Closure	50			422.50
292-19	Deutschland	Adit Closure	50	Adit Closure	50			422.50
292-20	Deutschland	Shaft Closure	83	Shaft Closure	83			701.35

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HMO No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
295-1	Brandon I	Adit Culvert	1	Adit Closure	5			42.25
295-2	Brandon I	Adit Culvert	1	Adit Closure	5			42.25
298-	Standard/Ruby	Shaft Closure	25	Shaft Closure	25			211.25
298-1	Standard/Ruby	Shaft Closure	35	Shaft Closure	25	Debris Cleanup	1	211.25
298-2	Standard/Ruby	Shaft Closure	35	Shaft Closure	35			295.75
298-3	Standard/Ruby	Adit Closure	5	Adit Closure	6			50.70
298-4	Standard/Ruby	Shaft Closure	75	Shaft Closure	110			929.50
298-5	Standard/Ruby	Adit Closure	150	Adit Closure	209	Debris Cleanup	1	1,766.05
298-6	Standard/Ruby	Shaft Closure	15	Shaft Closure	15			126.75
298-7	Standard/Ruby	Shaft Closure	150	Shaft Closure	147			1,242.15
298-8	Standard/Ruby	Backfill Closure	137	Backfill Closure	137			1,157.65
298-9	Standard/Ruby	Shaft Closure	40	Shaft Closure	40			338.00
298-10	Standard/Ruby	Shaft Closure	15	Shaft Closure	15			126.75
298-11	Standard/Ruby	Shaft Closure	30	Shaft Closure	30			253.50
298-12	Standard/Ruby	Shaft Closure	42	Shaft Closure	42			354.90
298-13	Standard/Ruby	Shaft Closure	41	Shaft Closure	41			346.45
298-14	Standard/Ruby	Shaft Closure	42	Shaft Closure	42			354.90
298-15	Standard/Ruby	Shaft Closure	41	Shaft Closure	41			346.45
298-16	Standard/Ruby	Backfill Closure	113	Backfill Closure	113			954.85
298-17	Standard/Ruby	Backfill Closure	42	Backfill closure	42			354.90
299-1	NW NW Section 28	Culvert (4 ft.)	1	Culvert (4 ft)	1			1,400.00
301-1	Deutschland South	Adit Closure	10	Adit Closure	10			84.50
301-2	Deutschland South	Adit Closure	30	Adit Closure	30			253.50

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HMO No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
303-2	SW NE Section 27	Adit Seal	1	Adit Seal	1			425.00
307-2	Dry Gulch North	Adit Seal	1	Adit Seal	1			425.00
307-3	Dry Gulch North	Adit Seal	1	Adit Seal	1			425.00
307-4	Dry Gulch North	Adit Seal	1	Adit Seal	1			425.00
307-6	Dry Gulch North	Adit Seal	1	Adit Seal	1			425.00
307-7	Dry Gulch North	Adit Seal	1	Adit Seal	1			425.00
307-8	Dry Gulch North	Adit Seal	1	Adit Seal	1			425.00
319-1	North Fork Antelope Creek	Culvert (3 ft)	1	Adit Closure	15			126.75
321-1	Sheridan View	Grate (16x16)	1	16x24 grate	1			1,750.00
321-5	Sheridan View	Fence	40	16x24 grate	1			1,750.00
323-1	Nash Group	Culvert (3 ft)	1	Culvert	1			1,400.00
326-1	Antelope Gulch No. 2	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
326-7	Antelope Gulch No. 2	Culvert (4 ft.)	1	Culvert (4 ft)	1			1,400.00
327-2	Antelope Gulch No. 1	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
327-3	Antelope Gulch No. 1	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
328-1	Roylance	Adit Closure	10	Adit Closure	10			84.50
328-3	Roylance	Adit Closure	50	Adit Closure	50			422.50
328-4	Roylance	Adit Seal	1	Adit Seal	1			425.00
328-5	Roylance	Adit Closure	5	Adit Closure	10			84.50
328-6	Roylance	Shaft Closure	15	Shaft Closure	15			126.75
331-1	O'Rourke	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
332-2	Fort Knox	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
332-6	Fort Knox	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HM0 No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
332-8	Fort Knox	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
345-1	Geel	Fence	125	Shaft Closure	20			169.00
345-2	Geel	Fence	100	Shaft Closure	97			819.65
364-1	Jane & Nash	Cable Net	1	Adit Seal	1			425.00
440-1	SE SE Section 18	Culvert (4 ft)	1	Adit Closure	28			236.60
441-1	Union	Fence	260	Spec. Grate	1	Mobilization	1	2,700.00
441-2	Union	Fence	0	Spec. Grate	1			1,950.00
441-3	Union	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
441-5	Union	Masonry Door	1	Masonry Door	1			1,200.00
441-6	Union	Culvert (5 ft.)	1	Culvert (5 ft)	1			1,400.00
451-1	Buckeye	Culvert (3 ft)	1	Adit Closure	48			405.60
451-2	Buckeye	Fence	180	Shaft Closure	115			971.75
451-3	Buckeye	Culvert (3 ft)	1	Adit Closure	166			1,402.70
451-4	Buckeye	Culvert (3 ft)	1	Adit Closure	430			3,633.50
451-5	Buckeye	Culvert (3 ft)	1	Adit Closure	15			126.75
451-6	Buckeye	Adit Closure	130	Adit Closure	130			1,098.50
451-7	Buckeye	Adit Closure	5	Adit Closure	5			42.25
451-8	Buckeye	Grate (16x16)	1	Shaft Closure	58			490.10
451-10	Buckeye	Adit Closure	48	Adit Closure	48			405.60
453-1	Brandon II	Culvert (3 ft)	1	Adit Closure	10			84.50
456-4	Flamm Ranch #2	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
457-1	Rodewald Ranch #1	Adit Closure	15	Adit Closure	15			126.75
457-2	Rodewald Ranch #1	Adit Closure	80	Adit Closure	80			676.00

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HMO No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
457-3	Rodewald Ranch #1	Aduit Closure	20	Aduit Closure	20			169.00
457-4	Rodewald Ranch #1	Aduit Closure	10	Aduit Closure	10			84.50
457-5	Rodewald Ranch #1	Aduit Closure	150	Aduit Closure	150			1,267.50
457-6	Rodewald Ranch #1	Aduit Seal	1	Aduit Closure	2			16.90
457-7	Rodewald Ranch #1	Aduit Seal	1	Aduit Closure	3			25.35
457-8	Rodewald Ranch #1	Aduit Seal	1	Aduit Closure	5			42.25
457-9	Rodewald Ranch #1	Aduit Seal	1	Aduit Seal	1			425.00
457-10	Rodewald Ranch #1	Aduit Closure	10	Aduit Closure	10			84.50
457-11	Rodewald Ranch #1	Aduit Closure	5	Aduit Closure	5			42.25
458-1	Rodewald Ranch #2	Shaft Closure	50	Shaft Closure	50			422.50
463-1	Nuggett Creek	Aduit Seal	1	Aduit Seal	1			425.00
463-2	Nuggett Creek	Aduit Seal	1	Aduit Seal	1			425.00
465-4	Whiskey Jack	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
465-5	Whiskey Jack	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
465-6	Whiskey Jack	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
466-1	Kentucky	Culvert (3 Ft0	1	Culvert (3 ft)	1			1,400.00
466-3	Kentucky	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
467-1	Brimstone	Culvert (3 ft)	1	Masonry Door	1			1,200.00
467-8	Brimstone	Culvert (3 ft.)	1	Culvert (3 ft)	1			1,400.00
467-9	Brimstone	Cable Net	1	Culvert (3 ft)	1			1,400.00
467-10	Brimstone	Cable Net	1	Culvert (3 ft)	1			1,400.00
467-11	Brimstone	Cable Net	1	Culvert (3 ft)	1			1,400.00
470-1	Wet Georgia Gulch	Masonry Door	1	Masonry Door	1			1,200.00

PROJECT RECONCILIATION
NORTHERN MADISON ONE RECLAMATION & MAINTENANCE PROJECT

HMO No	Site Name	Specified Task	Quantity	Constructed	Quantity	Constructed	Quantity	Actual Cost
474-1	Vanmeter	Adit Seal	1	Adit Seal	1			425.00
474-6	Vanmeter	Adit Closure	5	Adit Seal	1			425.00

APPENDIX G

**PHOTOGRAPHIC RECORD
NORTHERN MADISON ONE RECLAMATION PROJECT**

PHOTOGRAPHIC RECORD
NORTHERN MADISON ONE RELCAMATION PROJECT

SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
1	Shoemaker	29-071	71-1	Before; 10' W
2	Shoemaker	29-071	71-1	DURING; 20' E OF SHAFT; INSTALLING GRATE
3	Shoemaker	29-071	71-1	AFTER; 10X10 GRATE SYSTEM
4	Canyon Campground	29-092	92-1	BEFORE; WEST ACROSS RUBY R.
5	Canyon Campground	29-092	92-1	BEFORE; FROM CANYON CAMGRND
6	Canyon Campground	29-092	92-1	BEFORE; LOADOUT FACILITY
7	Canyon Campground	29-092	92-1	BEFORE; MAIN PORTAL 20' E.
8	Canyon Campground	29-092	92-1	BEFORE; MAIN PORTAL 5' E.
9	Canyon Campground	29-092	92-1	AFTER; 25' N. OF ADIT
10	Canyon Campground	29-092	92-2	BEFORE; 20' EAST
11	Canyon Campground	29-092	92-2	BEFORE; 5' EAST
12	Canyon Campground	29-092	92-2	DURING; HELICOPTER AIRLIFT
13	Canyon Campground	29-092	92-2	DURING; HELICOPTER AIRLIFT
14	Canyon Campground	29-092	92-2	DURING; HELICOPTER AIRLIFT
15	Canyon Campground	29-092	92-2	DURING; HELICOPTER AIRLIFT
16	Canyon Campground	29-092	92-2	INSTALLING GRATE, 15' S.
17	Canyon Campground	29-092	92-2	POURING CONCRETE, 15' S.
18	Canyon Campground	29-092	92-2	COMPLETE GRATE, 15' S.
19	Canyon Campground	29-092	92-3	BEFORE; ACROSS RUBY RIVER
20	Canyon Campground	29-092	92-3	BEFORE; LOADOUT FACILITY 30' W.
21	Canyon Campground	29-092	92-3	BEFORE; USFS CABIN
22	Canyon Campground	29-092	92-3	BEFORE; USFS CABIN
23	Canyon Campground	29-092	92-3	BEFORE; PORTAL AREA
24	Canyon Campground	29-092	92-3	RIVER CROSSING FROM SOUTH
25	Canyon Campground	29-092	92-3	BEFORE; 50' E OF MAIN PORTAL
26	Canyon Campground	29-092	92-3	TRUCK CROSSING RUBY R.
27	Canyon Campground	29-092	92-3	BACKHOE CROSSING RUBY R.
28	Canyon Campground	29-092	92-3	BEFORE; DEMOLISHING LOADOUT
29	Canyon Campground	29-092	92-3	DURING; 50' W, COLLAPSING LOADOUT
30	Canyon Campground	29-092	92-3	DURING; 20' E. OF ONSITE DISPOSAL AREA
31	Canyon Campground	29-092	92-3	DURING; REMOVING CONCRETE SLAB
32	Canyon Campground	29-092	92-3	DURING; HAULING DEBRIS

PHOTOGRAPHIC RECORD
NORTHERN MADISON ONE RELCAMATION PROJECT

SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
33	Canyon Campground	29-092	92-3	DURING; LOADING DEBRIS
34	Canyon Campground	29-092	92-3	DURING; 30' W, DEMOLISHING CABIN
35	Canyon Campground	29-092	92-3	DURING; 10' N OF DRAINPIPE
36	Canyon Campground	29-092	92-3	DRAINPIPE
37	Canyon Campground	29-092	92-3	DURING; SEEDING DISTURBED AREA (CABINS)
38	Canyon Campground	29-092	92-3	AFTER; COMPLETE DEMOLITION & SEEDING
39	Canyon Campground	29-092	92-3	AFTER; COMPLETE DEMOLITION & SEEDING
40	Canyon Campground	29-092	92-3	AFTER; COMPLETE DEMOLITION & SEEDING
41	Canyon Campground	29-092	92-3	ACCESS ROUTE ACROSS RUBY R.
42	Canyon Campground	29-092	92-3	DURING; REBUILDING FENCE
43	Canyon Campground	29-092	92-3	DURING; REBUILDING FENCE
44	Canyon Campground	29-092	92-3	AFTER; COMPLETED FENCE
45	Ellen Marshal	29-157	157-1	BEFORE; 10' S.
46	Ellen Marshal	29-157	157-1	DURING; INSTALLING GRATE, 5' E.
47	Ellen Marshal	29-157	157-1	AFTER; COMPLETE GRATE, 5' S.
48	Ellen Marshal	29-157	157-2	BEFORE; 5' N.
49	Ellen Marshal	29-157	157-2	AFTER; COMPLETE GRATE, 20' E.
50	Moffat	29-276	276-1	BEFORE; 15' E.
51	Moffat	29-276	276-1	AFTER; COMPLETE GRATE, 20' E.
52	Moffat	29-276	276-2	BEFORE; 5' W.
53	Moffat	29-276	276-2	AFTER; COMPLETE CLOSURE, 15' W.
54	Dry Gulch South	29-282	282-1	BEFORE; 10'S.
55	Dry Gulch South	29-282	282-1	DURING; 30' S, BACKFILLING ADIT
56	Dry Gulch South	29-282	282-1	AFTER; 30' S OF COMPLETED CLOSURE
57	Dry Gulch South	29-282	282-2	BEFORE; 5' S OF ADIT
58	Dry Gulch South	29-282	282-2	DURING; SEALING ADIT
59	Dry Gulch South	29-282	282-2	AFTER; 10' S OF ADIT
60	Dry Gulch South	29-282	282-2	AFTER; 10' E OF ADIT
61	Dry Gulch South	29-282	282-3	BEFORE; 10' S.
62	Dry Gulch South	29-282	282-3	AFTER; 10' S OF ADIT
63	Dry Gulch South	29-282	282-3	AFTER; SEEDING AREA
64	Dry Gulch South	29-282	282-4	BEFORE; 10' W OF ADIT

PHOTOGRAPHIC RECORD
NORTHERN MADISON ONE RELCAMATION PROJECT

SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
65	Dry Gulch South	29-282	282-4	DURING; 20' W OF ADIT
66	Dry Gulch South	29-282	282-4	AFTER; 10' N OF ADIT
67	Dry Gulch South	29-282	282-5	BEFORE; 10' W.
68	Dry Gulch South	29-282	282-5	AFTER; 50' S OF CLOSURE
69	Dry Gulch South	29-282	282-6	BEFORE; 10' W.
70	Dry Gulch South	29-282	282-6	AFTER; 10' N OF ADIT
71	Dry Gulch South	29-282	282-7	BEFORE; 5' W.
72	Dry Gulch South	29-282	282-7	AFTER; 10' W OF ADIT
73	Dry Gulch South	29-282	282-7	AFTER; SEEDING AREA
74	Dry Gulch South	29-282	282-8	BEFORE; 10' W OF ADIT
75	Dry Gulch South	29-282	282-8	DURING; 20' W, REMOVING PORTAL
76	Dry Gulch South	29-282	282-8	AFTER; 10' W OF COMPLETED SEAL
77	Dry Gulch South	29-282	282-9	BEFORE; ADIT SEAL
78	Dry Gulch South	29-282	282-9	AFTER; COMPLETED ADIT SEAL
79	Dry Gulch South	29-282	282-10	BEFORE; 15' W OF CLOSURE
80	Dry Gulch South	29-282	282-10	DURING; 20' W, TOPSOIL SALVAGE
81	Dry Gulch South	29-282	282-10	DURING; 50' W, BACKFILLING ADIT
82	Dry Gulch South	29-282	282-10	AFTER; 50' W OF COMPLETED CLOSURE
83	Dry Gulch South	29-282	282-11	BEFORE; 10' S.
84	Dry Gulch South	29-282	282-11	DURING; 30' S OF ADIT; BACKFILLING
85	Dry Gulch South	29-282	282-11	AFTER; 40' S OF COMPLETE CLOSURE
86	Dry Gulch South	29-282	282-12	BEFORE; 15' S OF ADIT
87	Dry Gulch South	29-282	282-12	DURING; SEALING ADIT, 15' S.
88	Dry Gulch South	29-282	282-12	AFTER; 20' S OF ADIT
89	Dry Gulch South	29-282	282-13	BEFORE; 10' E.
90	Dry Gulch South	29-282	282-13	AFTER; 10' N. OF GRATE
91	Dry Gulch South	29-282	282-13	AFTER; 20' E OF GRATE
92	Dry Gulch South	29-282	282-14	BEFORE; 10' W.
93	Dry Gulch South	29-282	282-14	AFTER; 15' S OF CLOSURE
94	Dry Gulch South	29-282	282-15	BEFORE; 10' N OF OPENING
95	Dry Gulch South	29-282	282-15	BEFORE; 5' S. OF OPENING
96	Dry Gulch South	29-282	282-15	AFTER; 10' N OF COMPLETED CLOSURE

PHOTOGRAPHIC RECORD
NORTHERN MADISON ONE RELCAMATION PROJECT

SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
97	Dry Gulch South	29-282	282-15	AFTER; 10' N OF COMPLETED CLOSURE
98	Dry Gulch South	29-282	282-16	BEFORE; 5' W.
99	Dry Gulch South	29-282	282-16	AFTER; 25' W OF COMPLETE SHAFT CLOSURE
100	Dry Gulch South	29-282	282-16	AFTER; 40' S OF SEEDED AREA
101	Dry Gulch South	29-282	282-17	BEFORE; EAST EDGE OF SHAFT
102	Dry Gulch South	29-282	282-17	DURING; 15' N OF SHAFT, BACKFILLING
103	Dry Gulch South	29-282	282-17	AFTER; 20' S OF COMPLETED CLOSURE
104	Dry Gulch South	29-282	282-18	BEFORE; 30' W.
105	Dry Gulch South	29-282	282-18	DURING; BACKFILLING SHAFT
106	Dry Gulch South	29-282	282-18	AFTER; COMPLETE CLOSURE # 18 & 24
107	Dry Gulch South	29-282	282-18	AFTER; TRACKING MULCH
108	Dry Gulch South	29-282	282-18	AFTER; SEEDED AREA (TRACKING)
109	Dry Gulch South	29-282	282-19	BEFORE; 10' W.
110	Dry Gulch South	29-282	282-19	DURING; BACKFILLING SHAFT
111	Dry Gulch South	29-282	282-19	AFTER; 30' E OF SHAFT
112	Dry Gulch South	29-282	282-19	AFTER; 30' E OF SHAFT, TRACKING MULCH
113	Dry Gulch South	29-282	282-20	BEFORE; 25' S OF ADIT
114	Dry Gulch South	29-282	282-20	DURING; 30' S OF ADIT
115	Dry Gulch South	29-282	282-20	DURING; 30' S OF ADIT, BACKFILLING
116	Dry Gulch South	29-282	282-20	DURING; 30'S OF ADIT, BACKFILLING
117	Dry Gulch South	29-282	282-20	AFTER; 30' S OF CLOSED ADIT
118	Dry Gulch South	29-282	282-22	BEFORE; 5' S.
119	Dry Gulch South	29-282	282-22	AFTER; 10' S OF COMPLETED SEAL
120	Dry Gulch South	29-282	282-23	BEFORE; 5' S. OF ADIT
121	Dry Gulch South	29-282	282-23	DURING; 15' W OF ADIT
122	Dry Gulch South	29-282	282-23	AFTER; 15' W OF COMPLETED SEAL
123	Dry Gulch South	29-282	282-24	BEFORE; 20' S.
124	Dry Gulch South	29-282	282-24	DURING; REMOVING PORTAL
125	Dry Gulch South	29-282	282-24	DURING; BACKFILLING ADIT TRENCH
126	Dry Gulch South	29-282	282-24	AFTER; 35' S OF SEEDED AREA
127	Dry Gulch South	29-282	282-25	BEFORE; 10' N.
128	Dry Gulch South	29-282	282-25	DURING; INSTALLING GRATE, 50' N.

PHOTOGRAPHIC RECORD
NORTHERN MADISON ONE RELOCATION PROJECT

SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
129	Dry Gulch South	29-282	282-25	AFTER; COMPLETE GRATE, 10' N.
130	Dry Gulch South	29-282	282-26	BEFORE; 10' S OF ADIT
131	Dry Gulch South	29-282	282-26	DURING; SEALING ADIT
132	Dry Gulch South	29-282	282-26	AFTER; 10' S OF ADIT
133	Dry Gulch South	29-282	282-27	DURING; 25' S OF ADIT
134	Dry Gulch South	29-282	282-27	AFTER; 30' N OF COMPLETED SEAL
135	Smith Reservoir	29-284	284-1	BEFORE; 10' W. OF ADIT
136	Smith Reservoir	29-284	284-1	AFTER; 15' S OF ADIT
137	Smith Reservoir	29-284	284-2	BEFORE; 20' N OF ADIT
138	Smith Reservoir	29-284	284-2	AFTER; 20' N OF ADIT
139	Smith Reservoir South	29-286	286-1	BEFORE; 20' W OF CLOSURE
140	Smith Reservoir South	29-286	286-1	AFTER; 20' W OF COMPLETED CLOSURE
141	Smith Reservoir South	29-286	286-3	BEFORE; 15' W OF ADIT
142	Smith Reservoir South	29-286	286-3	DURING; 15' W OF ADIT
143	Smith Reservoir South	29-286	286-3	AFTER; 15' W OF SEALED ADIT
144	Smith Reservoir South	29-286	286-4	BEFORE; 10' W OF ADIT
145	Smith Reservoir South	29-286	286-4	DURING; 15' W, BACKFILLING ADIT
146	Smith Reservoir South	29-286	286-4	AFTER; 20' W OF COMPLETED CLOSURE
147	Smith Reservoir South	29-286	286-5	BEFORE; 10' N OF ADIT
148	Smith Reservoir South	29-286	286-5	DURING; 20' W, BACKFILLING ADIT
149	Smith Reservoir South	29-286	286-5	AFTER; 25' W OF COMPLETED CLOSURE
150	Smith Reservoir South	29-286	286-6	BEFORE; 15' W OF CLOSURE
151	Smith Reservoir South	29-286	286-6	AFTER; 20' W OF COMPLETED CLOSURE
152	Smith Reservoir South	29-286	286-7	BEFORE; 10' W. OF ADIT
153	Smith Reservoir South	29-286	286-7	DURING; 15' N ADIT
154	Smith Reservoir South	29-286	286-7	AFTER; 15' N OF ADIT SEAL
155	Smith Reservoir South	29-286	286-8	BEFORE; 10' N OF ADIT
156	Smith Reservoir South	29-286	286-8	AFTER; 10' N OF SEAL
157	Smith Reservoir South	29-286	286-8	AFTER; SEEDING DISTURBED AREA
158	Smith Reservoir South	29-286	286-9	BEFORE; 5' N OF ADIT
159	Smith Reservoir South	29-286	286-9	AFTER; 15' N OF COMPLETED SEAL
160	Smith Reservoir South	29-286	286-9	AFTER; SEEDING DISTURBED AREA

PHOTOGRAPHIC RECORD
NORTHERN MADISON ONE RECLAMATION PROJECT

SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
161	Smith Reservoir South	29-286	286-10	BEFORE; 20' N OF ADIT
162	Smith Reservoir South	29-286	286-10	DURING; 20' N OF ADIT, BACKFILLING
163	Smith Reservoir South	29-286	286-10	AFTER; 30' N OF COMPLETED CLOSURE
164	Smith Reservoir South	29-286	286-11	BEFORE; 10' W OF CLOSURE
165	Smith Reservoir South	29-286	286-11	DURING; 10' E, BACKFILLING SHAFT
166	Smith Reservoir South	29-286	286-11	DURING; SEEDING DISTURBED AREA
167	Smith Reservoir South	29-286	286-11	AFTER; 20' W OF COMPLETED CLOSURE
168	Tidal Wave	29-287	287-1	BEFORE; 10' N. OF ADIT
169	Tidal Wave	29-287	287-1	DURING; 30' N OF ADIT
170	Tidal Wave	29-287	287-1	AFTER; 40' N OF ADIT
171	Tidal Wave	29-287	287-2	BEFORE; 5' E.
172	Tidal Wave	29-287	287-2	DURING; 30' W OF ADIT, SEALING
173	Tidal Wave	29-287	287-2	AFTER; 20' W OF SEALED ADIT
174	Tidal Wave	29-287	287-3	BEFORE; 10' S.
175	Tidal Wave	29-287	287-3	AFTER; 10' S OF ADIT
176	Tidal Wave	29-287	287-4	BEFORE; 10' S.
177	Tidal Wave	29-287	287-4	DURING; 5' E OF CULVERT
178	Tidal Wave	29-287	287-4	AFTER; 15' S OF INSTALLED CULVERT
179	Tidal Wave	29-287	287-5	BEFORE; 10' W.
180	Tidal Wave	29-287	287-5	DURING; 15'N OF SHAFT, INSTALLING GRATE
181	Tidal Wave	29-287	287-5	DURING; 15' E OF SHAFT
182	Tidal Wave	29-287	287-5	AFTER; 10' W OF SHAFT
183	Tidal Wave	29-287	287-6	BEFORE; 10' E.
184	Tidal Wave	29-287	287-6	AFTER; 30' N OF COMPLETED CLOSURE
185	Tidal Wave	29-287	287-7	BEFORE; WEST EDGE OF OPENING
186	Tidal Wave	29-287	287-7	AFTER; 10' N OF COMPLETED CLOSURE
187	Tidal Wave	29-287	287-8	BEFORE; 5' S.
188	Tidal Wave	29-287	287-8	AFTER; 10' N OF COMPLETED CLOSURE
189	Tidal Wave	29-287	287-9	BEFORE; 10' N.
190	Tidal Wave	29-287	287-9	AFTER; 10' N OF COMPLETED SEAL
191	Tidal Wave	29-287	287-10	BEFORE; 5' N.
192	Tidal Wave	29-287	287-10	AFTER; 10' N OF ADIT SEAL

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NORTHERN MADISON ONE RECLAMATION PROJECT

SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
193	Tidal Wave	29-287	287-11	BEFORE; 5' W.
194	Tidal Wave	29-287	287-11	DURING; 70' N OF ADIT, CLEARING ADIT
195	Tidal Wave	29-287	287-12	BEFORE; #'S 12 & 13, 15' N.
196	Tidal Wave	29-287	287-12	AFTER; #'S 11, 12, & 13, 50' N.
197	Tidal Wave	29-287	287-12	AFTER; #'S 11, 12, & 13, 100' N.
198	Tidal Wave	29-287	287-14	BEFORE; 10' S.
199	Tidal Wave	29-287	287-14	AFTER; 10' S OF CABLE NET
200	Tidal Wave	29-287	287-15	BEFORE; 5'N.
201	Tidal Wave	29-287	287-15	DURING; 30' E OF SHAFT, BACKFILLING
202	Tidal Wave	29-287	287-15	AFTER; 30' N OF COMPLETED CLOSURE
203	Tidal Wave	29-287	287-16	BEFORE; 5' S.
204	Tidal Wave	29-287	287-16	AFTER; 50' S OF COMPLETED CLOSURE
205	Tidal Wave	29-287	287-17	BEFORE; 5' S.
206	Tidal Wave	29-287	287-18	BEFORE; 10' W.
207	Tidal Wave	29-287	287-18	AFTER; #'S 17 & 18, 50' S.
208	Tidal Wave	29-287	287-19	BEFORE; #'S 19 & 20, 10'S.
209	Tidal Wave	29-287	287-21	BEFORE; #'S 21 & 22, SOUTH EDGE
210	Tidal Wave	29-287	287-22	AFTER; #'S 20, 21, 22, 30' W
211	North Fk Goodrich	29-288	288-12	BEFORE; 15' S.
212	North Fk Goodrich	29-288	288-12	AFTER; 15' S OF COMPLETED SEAL
213	North Fk Goodrich	29-288	288-13	BEFORE; 10' S OF SEAL
214	North Fk Goodrich	29-288	288-13	AFTER; 10' S OF COMPLETED SEAL
215	North Fk Goodrich	29-288	288-14	BEFORE; 20' S OF ADIT
216	North Fk Goodrich	29-288	288-14	DURING; 20' S OF ADIT
217	North Fk Goodrich	29-288	288-14	AFTER; 20' S OF COMPLETED SEAL
218	SE NW Section 27	29-289	289-3	AFTER; 15' S OF COMPLETED CLOSURE
219	SE NW Section 27	29-289	289-4	AFTER; 15' S OF ADIT SEAL
220	SE NW Section 27	29-289	289-5	DURING; 20' S OF ADIT
221	SE NW Section 27	29-289	289-5	AFTER; 15' S OF ADIT
222	SE NW Section 27	29-289	289-6	AFTER; 10' S OF COMPLETED SEAL
223	Deutschland	29-292	292-1	BEFORE; 5' S OF OPENING
224	Deutschland	29-292	292-1	AFTER; 10' S OF COMPLETED CLOSURE

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SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
225	Deutschland	29-292	292-2	BEFORE; 5' E OF OPENING
226	Deutschland	29-292	292-2	DURING; 20' W OF CLOSURE, TRACKING
227	Deutschland	29-292	292-2	AFTER; 5' E OF COMPLETED CLOSURE
228	Deutschland	29-292	292-3	BEFORE; 5' N OF OPENING
229	Deutschland	29-292	292-3	AFTER; 5' N OF CLOSURE
230	Deutschland	29-292	292-4	BEFORE; 5' N OF OPENING
231	Deutschland	29-292	292-4	AFTER; 10' N OF COMPLETED CLOSURE
232	Deutschland	29-292	292-4	SITES 1,3,4,6,7,& 8, 200 YDS E
233	Deutschland	29-292	292-6	BEFORE; 5' S OF OPENING
234	Deutschland	29-292	292-6	AFTER; 5' S OF COMPLETED CLOSURE
235	Deutschland	29-292	292-7	BEFORE; 5' N OF OPENING
236	Deutschland	29-292	292-7	AFTER; 5' N OF COMPLETED CLOSURE
237	Deutschland	29-292	292-8	BEFORE; 20' N OF OPENING
238	Deutschland	29-292	292-8	AFTER; 20' N OF COMPLETED CLOSURE
239	Deutschland	29-292	292-9	BEFORE; 5'S OF OPENING
240	Deutschland	29-292	292-9	AFTER; 5' S OF COMPLETED CLOSURE
241	Deutschland	29-292	292-10	BEFORE; 15' SW OF OPENING
242	Deutschland	29-292	292-10	AFTER; 10' S OF COMPLETED CLOSURE
243	Deutschland	29-292	292-11	BEFORE; 10' N OF OPENING
244	Deutschland	29-292	292-11	AFTER; 10' N OF COMPLETED CLOSURE
245	Deutschland	29-292	292-12	BEFORE; 10' S OF ADIT SEAL
246	Deutschland	29-292	292-12	AFTER; 10' S OF COMPLETED SEAL
247	Deutschland	29-292	292-13	BEFORE; 10' S OF OPENING
248	Deutschland	29-292	292-13	AFTER; 10' S OF COMPLETED SEAL
249	Deutschland	29-292	292-13	BEFORE; SITES 11 THRU 14, N.
250	Deutschland	29-292	292-14	BEFORE; 15' S OF CLOSURE
251	Deutschland	29-292	292-14	AFTER; 15' S OF COMPLETED CLOSURE
252	Deutschland	29-292	292-16	BEFORE; 20' S OF ADIT
253	Deutschland	29-292	292-16	AFTER; 20' S OF COMPLETEE SEAL
254	Deutschland	29-292	292-17	BEFORE; 15' S OF OPENING
255	Deutschland	29-292	292-17	AFTER; 15' S OF COMPLETED CLOSURE
256	Deutschland	29-292	292-18	BEFORE; 10' S OF OPENING

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SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
257	Deutschland	29-292	292-18	AFTER; 10' S OF COMPLETED CLOSURE
258	Deutschland	29-292	292-19	BEFORE; 10' S OF OPENING
259	Deutschland	29-292	292-19	AFTER; 10' S OF COMPLETED CLOSURE
260	Deutschland	29-292	292-20	BEFORE; 5' E OF OPENING
261	Deutschland	29-292	292-20	AFTER; 5' E OF COMPLETED CLOSURE
262	Brandon I	29-295	295-1	BEFORE; 10' E. OF OPENING
263	Brandon I	29-295	295-1	AFTER; 35' S OF COMPLETED CLOSURE
264	Brandon I	29-295	295-2	BEFORE; 10' E. OF OPENING
265	Brandon I	29-295	295-2	AFTER; 25' S OF COMPLETED CLOSURE
266	Standard/Ruby	29-298	298-1	BEFORE; 20' E. OF SHAFT
267	Standard/Ruby	29-298	298-1	AFTER; 10' N. OF SHAFT
268	Standard/Ruby	29-298	298-2	BEFORE; 20' N. OF OPENING
269	Standard/Ruby	29-298	298-2	AFTER; 15' W OF CLOSURE
270	Standard/Ruby	29-298	298-3	BEFORE; 20' W. OF ADIT
271	Standard/Ruby	29-298	298-3	AFTER; 10' S OF ADIT
272	Standard/Ruby	29-298	298-4	BEFORE; 5' N. OF OPENING
273	Standard/Ruby	29-298	298-4	AFTER; 20' N OF CLOSURE
274	Standard/Ruby	29-298	298-5	BEFORE; 5' W. OF TRENCH
275	Standard/Ruby	29-298	298-5	AFTER; 10' S OF CLOSURE
276	Standard/Ruby	29-298	298-6	BEFORE; 5' E. OF OPENING
277	Standard/Ruby	29-298	298-6	AFTER; 10' N OF CLOSURE
278	Standard/Ruby	29-298	298-7	BEFORE; 5' E. OF OPENING
279	Standard/Ruby	29-298	298-7	AFTER; 15' S OF CLOSURE
280	Standard/Ruby	29-298	298-8	BEFORE; AERIAL VIEW
281	Standard/Ruby	29-298	298-8	BEFORE; 15' N OF ADIT CLOSURE
282	Standard/Ruby	29-298	298-8	AFTER; 15' N OF ADIT CLOSURE
283	Standard/Ruby	29-298	298-9	BEFORE; 10' E OF ADIT CLOSURE
284	Standard/Ruby	29-298	298-9	AFTER; 30' N OF ADIT CLOSURE
285	Standard/Ruby	29-298	298-10	BEFORE; 15' N OF ADIT CLOSURE
286	Standard/Ruby	29-298	298-10	AFTER; 15' S OF ADIT CLOSURE
287	Standard/Ruby	29-298	298-11	BEFORE; 15' S OF ADIT CLOSURE
288	Standard/Ruby	29-298	298-11	AFTER; 25' S OF ADIT CLOSURE

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NORTHERN MADISON ONE RECLAMATION PROJECT

SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
289	Standard/Ruby	29-298	298-12	BEFORE; 30' S OF ADIT CLOSURE
290	Standard/Ruby	29-298	298-12	AFTER; 20' S OF ADIT CLOSURE
291	Standard/Ruby	29-298	298-13	BEFORE; 10' W OF ADIT CLOSURE
292	Standard/Ruby	29-298	298-13	AFTER; 20' W OF ADIT CLOSURE
293	Standard/Ruby	29-298	298-14	BEFORE; 10' W OF ADIT CLOSURE
294	Standard/Ruby	29-298	298-14	AFTER; 15' S OF CLOSURE
295	Standard/Ruby	29-298	298-15	BEFORE; 15' N OF CLOSURE
296	Standard/Ruby	29-298	298-16	BEFORE; 5' S OF CLOSURE
297	Standard/Ruby	29-298	298-16	AFTER; SITES 15 & 16 10' W.
298	Standard/Ruby	29-298	298-17	BEFORE; 20' S OF CLOSURE
299	Standard/Ruby	29-298	298-17	AFTER; 5' N. OF CLOSURE
300	Standard/Ruby	29-298	298-17	AFTER; 20' S OF CLOSURE
301	NW NW Section 28	29-299	299-1	BEFORE; PORTAL AREA
302	NW NW Section 28	29-299	299-1	BEFORE; 30' W. OF ADIT
303	NW NW Section 28	29-299	299-1	BEFORE; 10' W. OF OPENING
304	NW NW Section 28	29-299	299-1	DURING; 20' W OF ADIT, INSTALL CULVERT
305	NW NW Section 28	29-299	299-1	AFTER; INSTALLED CULVERT
306	Deutschland South	29-301	301-1	BEFORE; 15' S OF CLOSURE
307	Deutschland South	29-301	301-1	AFTER; 15' S OF COMPLETED CLOSURE
308	Deutschland South	29-301	301-2	BEFORE; 25' S OF CLOSURE
309	Deutschland South	29-301	301-2	AFTER; 25' S OF COMPLETED CLOSURE
310	SW NE Section 27	29-303	303-2	BEFORE; 30' S OF ADIT
311	SW NE Section 27	29-303	303-2	BEFORE; OVER OPENING
312	SW NE Section 27	29-303	303-2	AFTER; 10' S OF COMPLETED SEAL
313	Dry Gulch North	29-307	307-2	BEFORE; 5' W. OF ADIT
314	Dry Gulch North	29-307	307-2	AFTER; 15' W OF CLOSURE
315	Dry Gulch North	29-307	307-3	BEFORE; 15' W. OF OPENING
316	Dry Gulch North	29-307	307-3	AFTER; 30' N OF COMPLETED SEAL
317	Dry Gulch North	29-307	307-4	BEFORE; 20' W. OF ADIT
318	Dry Gulch North	29-307	307-4	AFTER; 15' W OF COMPLETED SEAL
319	Dry Gulch North	29-307	307-6	BEFORE; 10' W OF ADIT
320	Dry Gulch North	29-307	307-6	DURING; 20' W OF ADIT

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SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
321	Dry Gulch North	29-307	307-6	AFTER; 10' W OF ADIT
322	Dry Gulch North	29-307	307-7	BEFORE; 15' N OF ADIT
323	Dry Gulch North	29-307	307-7	AFTER; 20' N OF COMPLETED SEAL
324	Dry Gulch North	29-307	307-8	BEFORE; 5' W. OF ADIT
325	Dry Gulch North	29-307	307-8	AFTER; 10' S OF COMPLETED SEAL
326	North Fork Antelope Creek	29-319	319-1	BEFORE; 5' S. OF ADIT
327	North Fork Antelope Creek	29-319	319-1	AFTER; 15' E OF ADIT CLOSURE
328	Sheridan View	29-321	321-1	BEFORE; 10' SE OF SHAFT
329	Sheridan View	29-321	321-1	AFTER; 20'E OF COMPLETED GRATE
330	Sheridan View	29-321	321-5	BEFORE; 10' E. OF SHAFT
331	Sheridan View	29-321	321-5	DURING; 20'E OF GRATE
332	Nash Group	29-323	323-1	BEFORE; 15' S. OF ADIT
333	Nash Group	29-323	323-1	DURING; 10' S, BEDDING CULVERT
334	Nash Group	29-323	323-1	AFTER; 10' S OF CULVERT
335	Antelope Gulch No. 2	29-326	326-1	BEFORE; 35' S. OF ADIT
336	Antelope Gulch No. 2	29-326	326-1	AFTER; 15' E OF CULVERT
337	Antelope Gulch No. 2	29-326	326-7	BEFORE; 35' SE OF ADIT
338	Antelope Gulch No. 2	29-326	326-7	DURING; 30' S OF CULVERT
339	Antelope Gulch No. 2	29-326	326-7	AFTER; 20' S OF CULVERT
340	Antelope Gulch No. 1	29-327	327-2	BEFORE; 40' SW OF ADIT
341	Antelope Gulch No. 1	29-327	327-2	AFTER; 30' S OF CULVERT
342	Antelope Gulch No. 1	29-327	327-3	BEFORE; 25' W. OF ADIT
343	Antelope Gulch No. 1	29-327	327-3	AFTER; 20' S OF CULVERT
344	Roylance	29-328	328-1	BEFORE; 15' N. OF OPENING
345	Roylance	29-328	328-1	AFTER; 50' S OF ADIT CLOSURE
346	Roylance	29-328	328-3	BEFORE; 15' N. OF OPENING
347	Roylance	29-328	328-3	AFTER; 5' S OF ADIT CLOSURE
348	Roylance	29-328	328-4	BEFORE; 10' E. OF OPENING
349	Roylance	29-328	328-4	AFTER; 30' N OF ADIT CLOSURE
350	Roylance	29-328	328-5	BEFORE; 5' N. OF OPENING
351	Roylance	29-328	328-5	AFTER; 20' W ADIT CLOSURE
352	Roylance	29-328	328-6	BEFORE; 5' N. OF OPENING

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SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
353	Roylance	29-328	328-6	AFTER; 20' W OF ADIT CLOSURE
354	O'Rourke	29-331	331-1	BEFORE; 30' W. OF ADIT
355	O'Rourke	29-331	331-1	DURING; 20' W OF CULVERT INSTALLATION
356	O'Rourke	29-331	331-1	AFTER; 10' W OF INSTALLED CULVERT
357	Fort Knox	29-332	332-2	BEFORE; 20' W. OF ADIT
358	Fort Knox	29-332	332-2	AFTER; 15' W OF ADIT CLOSURE
359	Fort Knox	29-332	332-6	BEFORE; 25' W. OF ADIT
360	Fort Knox	29-332	332-6	AFTER; 15' W OF ADIT CLOSURE
361	Fort Knox	29-332	332-8	BEFORE; 30' N. OF ADIT
362	Fort Knox	29-332	332-8	DURING; 50' N OF ADIT, INSTALL CULVERT
363	Fort Knox	29-332	332-8	AFTER; 50' N OF ADIT CULVERT
364	Geel	29-345	345-1	BEFORE; 15' N. OF OPENING
365	Geel	29-345	345-1	DURING; 20' W OF SHAFT
366	Geel	29-345	345-1	AFTER; 20' W OF COMPLETED CLOSURE
367	Geel	29-345	345-2	BEFORE; 15' S. OF OPENING
368	Geel	29-345	345-2	DURING; 50' W OF SHAFT
369	Geel	29-345	345-2	AFTER; 25' S OF SHAFT,
370	Jane & Nash	29-364	364-1	BEFORE; 10' S. OF ADIT
371	Jane & Nash	29-364	364-1	AFTER; 15' W OF COMPLETED SEAL
372	SE SE Section 18	29-440	440-1	BEFORE; 10' W. OF OPENING
373	SE SE Section 18	29-440	440-1	AFTER; 15' S OF COMPLETED CLOSURE
374	Union	29-441	441-1	BEFORE; NORTH EDGE OF STOPE
375	Union	29-441	441-2	BEFORE; SOUTH EDGE OF STOPE
376	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
377	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
378	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
379	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
380	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
381	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
382	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
383	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
384	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE

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SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
385	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
386	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
387	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
388	Union	29-441	441-2	DURING; TRANSPORTING GRATES TO SITE
389	Union	29-441	441-2	AFTER; COMPLETE GRATE SITE 1
390	Union	29-441	441-2	AFTER; COMPLETE GRATE SITE 2
391	Union	29-441	441-3	BEFORE; 15' E. OF ADIT
392	Union	29-441	441-3	DURING; 25' E OF ADIT
393	Union	29-441	441-3	AFTER; 25' E OF INSTALLED CULVERT
394	Union	29-441	441-5	BEFORE; 20' S. OF ADIT
395	Union	29-441	441-5	DURING; 30' S, INSTALLING MASONRY DOOR
396	Union	29-441	441-5	AFTER; 10' S OF MASONRY DOOR
397	Union	29-441	441-6	BEFORE; 30' S. OF ADIT
398	Union	29-441	441-6	DURING; 50' S OF ADIT
399	Union	29-441	441-6	DURING; 50' S OF ADIT
400	Union	29-441	441-6	AFTER; 75' S OF CULVERT
401	Buckeye	29-451	451-1	BEFORE; 15' S. OF OPENING
402	Buckeye	29-451	451-1	DURING; 50' S OF ADIT, BACKFILLING
403	Buckeye	29-451	451-1	AFTER; 30' W OF COMPLETED CLOSURE
404	Buckeye	29-451	451-2	BEFORE; 15' W. OF SHAFT
405	Buckeye	29-451	451-2	AFTER; 30' W OF COMPLETED CLOSURE
406	Buckeye	29-451	451-3	BEFORE; 10' W. OF ADIT
407	Buckeye	29-451	451-3	AFTER; 40' W OF COMPLETED CLOSURE
408	Buckeye	29-451	451-4	BEFORE; 20' W. OF OPENING
409	Buckeye	29-451	451-4	DURING; 75' W OF ADIT, BACKFILLING
410	Buckeye	29-451	451-4	AFTER; 50' W OF ADIT
411	Buckeye	29-451	451-5	BEFORE; 10' S. OF OPENING
412	Buckeye	29-451	451-5	AFTER; 30' N OF COMPLETED CLOSURE
413	Buckeye	29-451	451-6	BEFORE; 10' W. OF OPENING
414	Buckeye	29-451	451-6	AFTER; 50' W OF COMPLETED CLOSURE
415	Buckeye	29-451	451-7	BEFORE; 5' S. OF OPENING
416	Buckeye	29-451	451-7	AFTER; 30' W OF COMPLETED CLOSURE

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SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
417	Buckeye	29-451	451-8	BEFORE; SOUTH EDGE OF SHAFT
418	Buckeye	29-451	451-8	DURING; 20' N OF SHAFT, BACKFILLING
419	Buckeye	29-451	451-8	AFTER; 40' N OF COMPLETED CLOSURE
420	Buckeye	29-451	451-10	DURING; 50' W OF ADIT, BACKFILLING
421	Buckeye	29-451	451-10	BEFORE; SITES 2 THRU 8
422	Buckeye	29-451	451-10	AFTER; SITES 2 THRU 8
423	Brandon II	29-453	453-1	BEFORE; 15' S. OF ADIT
424	Brandon II	29-453	453-1	AFTER; 30' W OF CLOSURE
425	Flamm Ranch #2	29-456	456-4	BEFORE; 30' S. OF ADIT
426	Flamm Ranch #2	29-456	456-4	AFTER; 15' S OF ADIT CULVERT
427	Rodewald Ranch #1	29-457	457-1	BEFORE; 10' W. OF OPENING
428	Rodewald Ranch #1	29-457	457-1	AFTER; COMPLETED CLOSURE
429	Rodewald Ranch #1	29-457	457-2	BEFORE; SITE 2 & 3
430	Rodewald Ranch #1	29-457	457-2	AFTER; SITE 2 & 3
431	Rodewald Ranch #1	29-457	457-4	BEFORE; 20' W. OF OPENING
432	Rodewald Ranch #1	29-457	457-5	BEFORE; 5' S. OF ADIT
433	Rodewald Ranch #1	29-457	457-5	DURING; SITE 4 & 5
434	Rodewald Ranch #1	29-457	457-5	AFTER; SITE 4 & 5
435	Rodewald Ranch #1	29-457	457-6	BEFORE; 20' S. OF OPENING
436	Rodewald Ranch #1	29-457	457-7	BEFORE; SITES 7 & 8
437	Rodewald Ranch #1	29-457	457-7	AFTER; SITES 7 & 8
438	Rodewald Ranch #1	29-457	457-9	BEFORE; 15' N. OF OPENING
439	Rodewald Ranch #1	29-457	457-9	DURING; 20' S OF ADIT
440	Rodewald Ranch #1	29-457	457-9	AFTER; 15' S OF COMPLETED SEAL
441	Rodewald Ranch #1	29-457	457-10	BEFORE; 20' S. OF OPENING
442	Rodewald Ranch #1	29-457	457-10	AFTER; 10' W OF COMPLETED CLOSURE
443	Rodewald Ranch #1	29-457	457-11	AFTER; 25' S OF COMPLETED CLOSURE
444	Rodewald Ranch #2	29-458	458-1	BEFORE; 5' N. OF SHAFT
445	Rodewald Ranch #2	29-458	458-1	AFTER; 100' W OF COMPLETED CLOSURE
446	Nuggett Creek	29-463	463-1	BEFORE; 5' W. OF ADIT
447	Nuggett Creek	29-463	463-1	AFTER; 10' W OF COMPLETED SEAL
448	Nuggett Creek	29-463	463-2	BEFORE; 10' S. OF ADIT

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SLIDE NO.	SITE NAME	PA NO.	MINE OPENING NO.	SEQUENCE, VANTAGE POINT & DESCRIPTION
449	Nuggett Creek	29-463	463-2	AFTER; 10' S OF COMPLETED SEAL
450	Whiskey Jack	29-465	465-4	BEFORE; 20' N. OF PORTAL
451	Whiskey Jack	29-465	465-4	DURING; 15' W OF ADIT, INSTALL CULVERT
452	Whiskey Jack	29-465	465-4	AFTER; 15' N OF INSTALLED CULVERT
453	Whiskey Jack	29-465	465-5	BEFORE; 15' S. OF ADIT
454	Whiskey Jack	29-465	465-5	DURING; 5' S OF ADIT, INSTALLING CULV.
455	Whiskey Jack	29-465	465-5	AFTER; 10' W OF INSTALLED CULVERT
456	Whiskey Jack	29-465	465-6	BEFORE; 20' S. OF PORTAL
457	Whiskey Jack	29-465	465-6	AFTER; COMPLETE CULVERT
458	Kentucky	29-466	466-1	BEFORE; 20' E. OF ADIT
459	Kentucky	29-466	466-1	AFTER; 20' E OF ADIT CULVERT
460	Kentucky	29-466	466-3	BEFORE; 20' E. OF ADIT
461	Kentucky	29-466	466-3	AFTER; 15' E OF CULVERT
462	Kentucky	29-466	466-3	AFTER; 10' E OF CULVERT
463	Brimstone	29-467	467-1	BEFORE; 20' S. OF PORTAL
464	Brimstone	29-467	467-1	AFTER; 10' S OF ADIT DOOR
465	Brimstone	29-467	467-8	BEFORE; 5' E. OF ADIT
466	Brimstone	29-467	467-8	AFTER; 5' E OF INSTALLED CULVERT
467	Brimstone	29-467	467-9	BEFORE; 15' W. OF ADIT
468	Brimstone	29-467	467-9	AFTER; 10' E OF INSTALLED CULVERT
469	Brimstone	29-467	467-10	BEFORE; 10' E. OF PORTAL
470	Brimstone	29-467	467-10	AFTER; 5' E OF INSTALLED CULVERT
471	Brimstone	29-467	467-11	BEFORE; 5' E. OF ADIT
472	Brimstone	29-467	467-11	AFTER; 10' E OF INSTALLED CULVERT
473	Wet Georgia Gulch	29-470	470-1	BEFORE; 20' S. OF PORTAL
474	Wet Georgia Gulch	29-470	470-1	AFTER; 5' S OF MASONRY DOOR
475	Vanmeter	29-474	474-1	BEFORE; 15' S. OF ADIT
476	Vanmeter	29-474	474-1	DURING; 10' S OF ADIT
477	Vanmeter	29-474	474-1	AFTER; 10' S OF COMPLETED SEAL
478	Vanmeter	29-474	474-6	BEFORE; 5' E. OF ADIT
479	Vanmeter	29-474	474-6	AFTER; 30' W OF COMPLETED SEAL



Madison County Maintenance
Rochester District/Shoemaker
Damaged shaft cover, 10' west

1



Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site

4



71-1 Shoemaker
DURING: 20' E OF SHAFT: INSTALLING GRAT
North Madison I Project//Photo No:

2



71-1 Shoemaker
AFTER: 10X10 GRATE SYSTEM
North Madison I Project//Photo No:

3



Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site



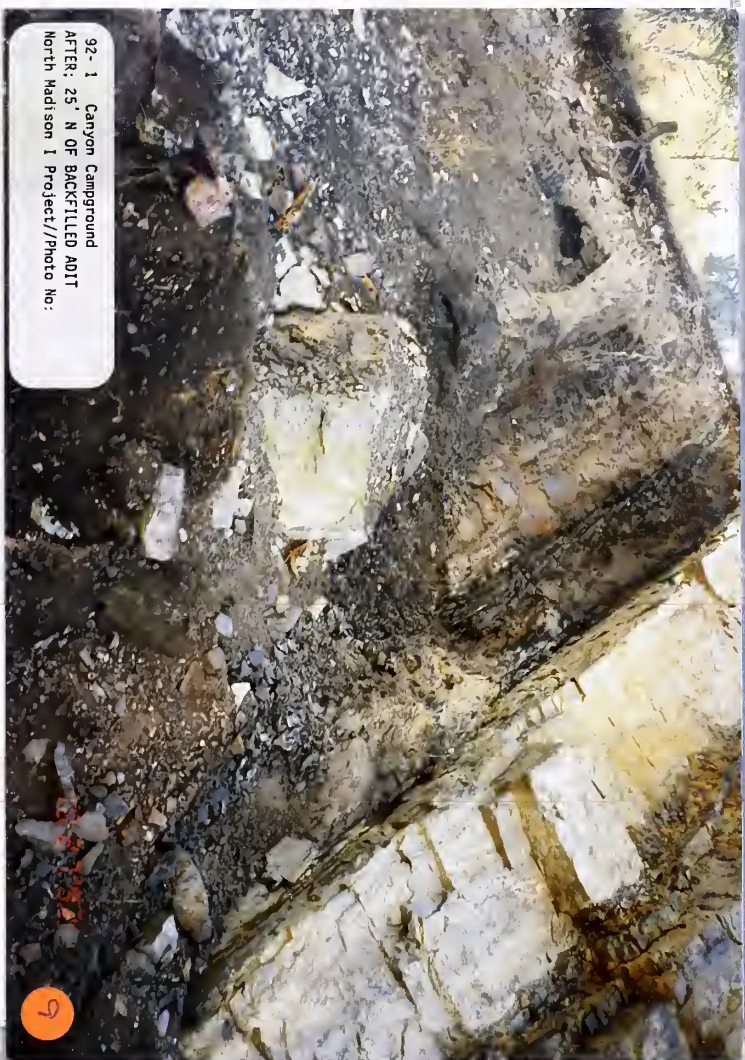
Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site



Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site



Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site



92- 1 Canyon Campground
AFTER: 25' N OF BACKFILLED ADIT
North Madison I Project/Photo No:

9



92- 1 Canyon Campground
AFTER: 25' N OF BACKFILLED ADIT
North Madison I Project/Photo No:

10



92-2 Canyon Campground
Helicopter airlift grate & equip. to site
North Madison I Project/Photo No:

12



92- 1 Canyon Campground
AFTER: 25' N OF BACKFILLED ADIT
North Madison I Project/Photo No:

11



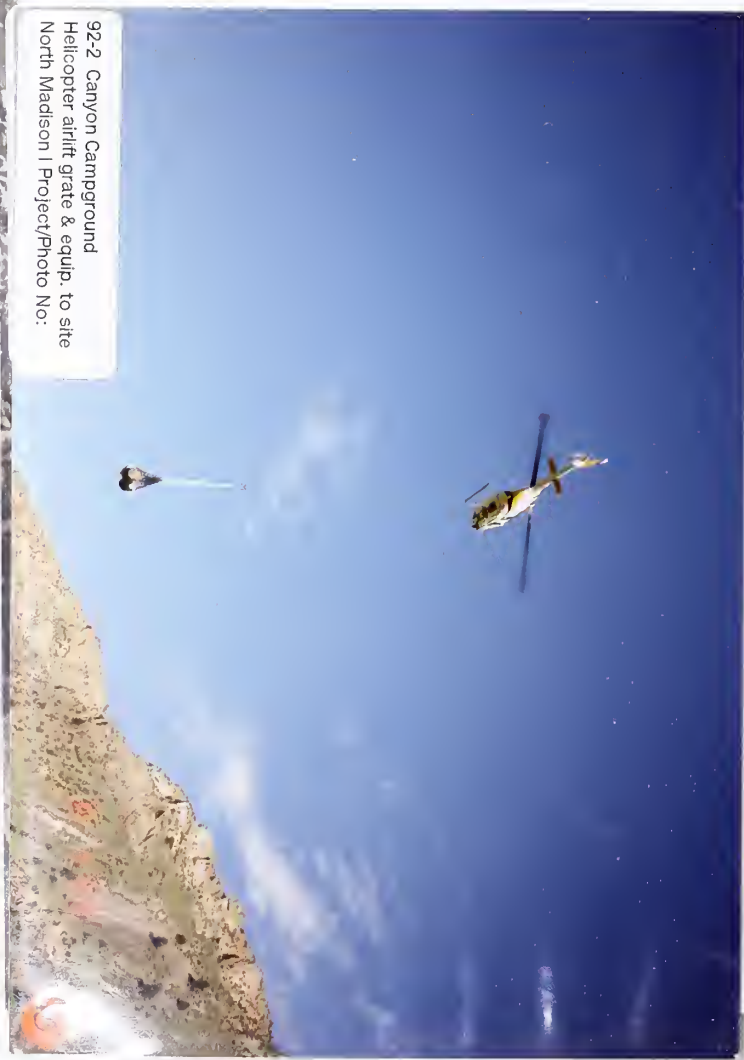
92-2 Canyon Campground
Installing grate, 15' S
North Madison I Project/Photo No:

13



92-2 Canyon Campground
Helicopter airlift grate & equip. to site
North Madison I Project/Photo No:

14



92-2 Canyon Campground
Helicopter airlift grate & equip. to site
North Madison I Project/Photo No:

15



92-2 Canyon Campground
Helicopter airlift grate & equip. to site
Madison I Project/Photo No:

16



92-2 Canyon Campground
Pouring concrete, 15' S
North Madison I Project/Photo No:

17



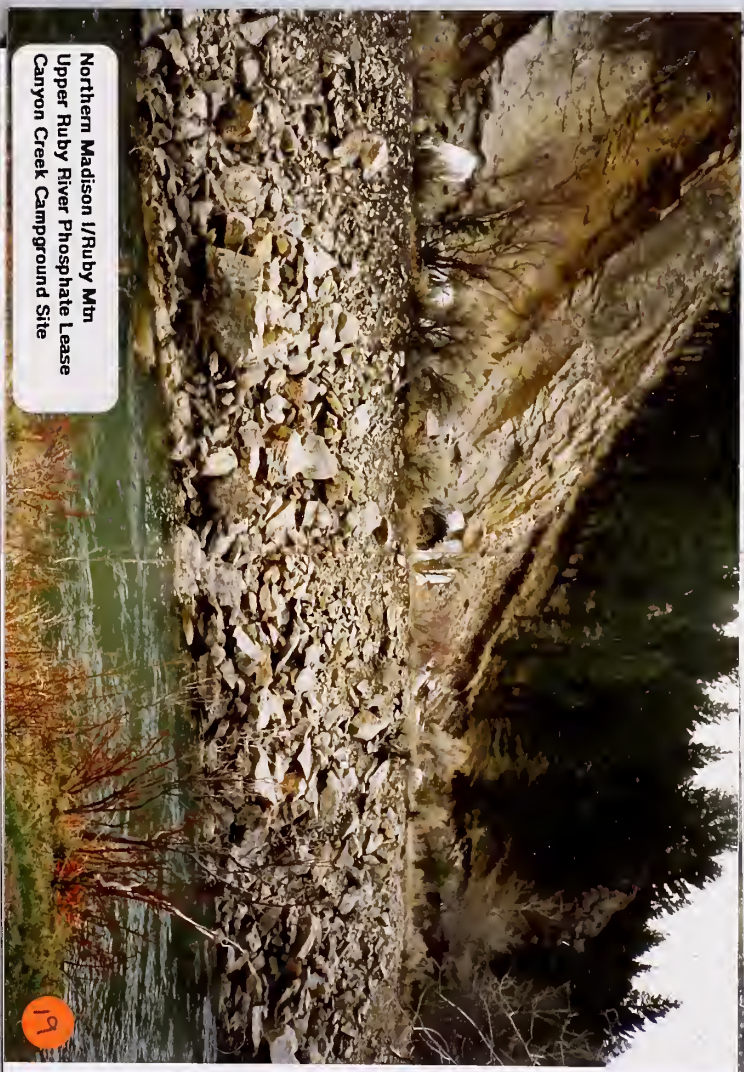
92-2 Canyon Campground
Complete grate, 15' S
North Madison I Project/Photo No:

18



Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site

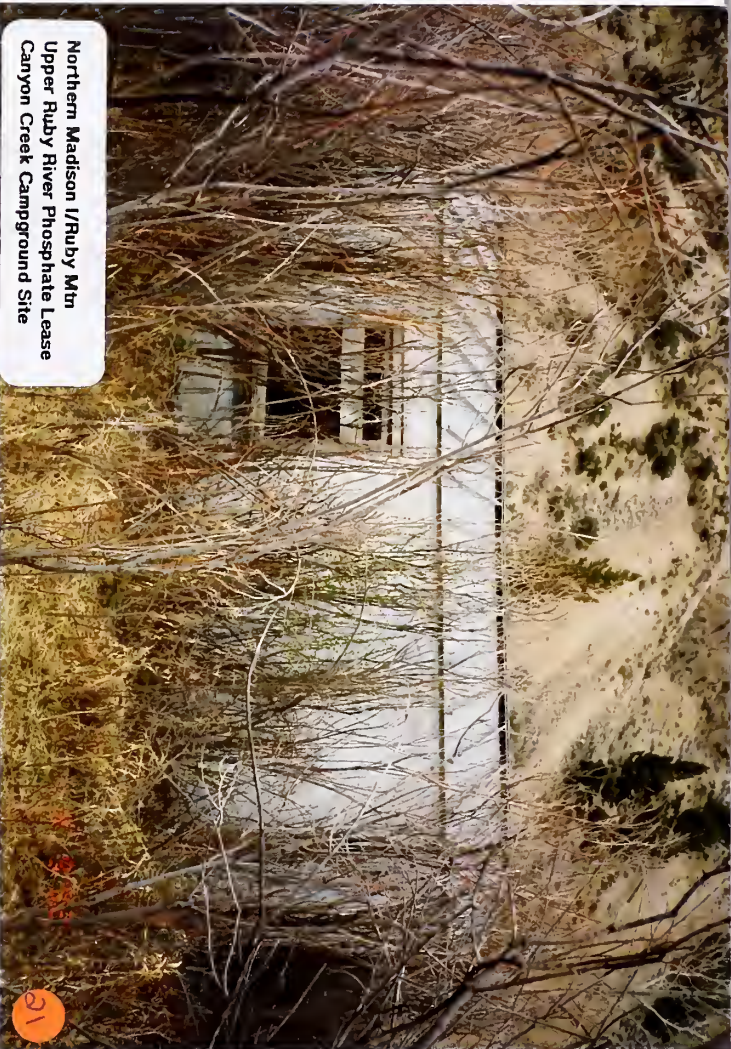
19



Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site

20

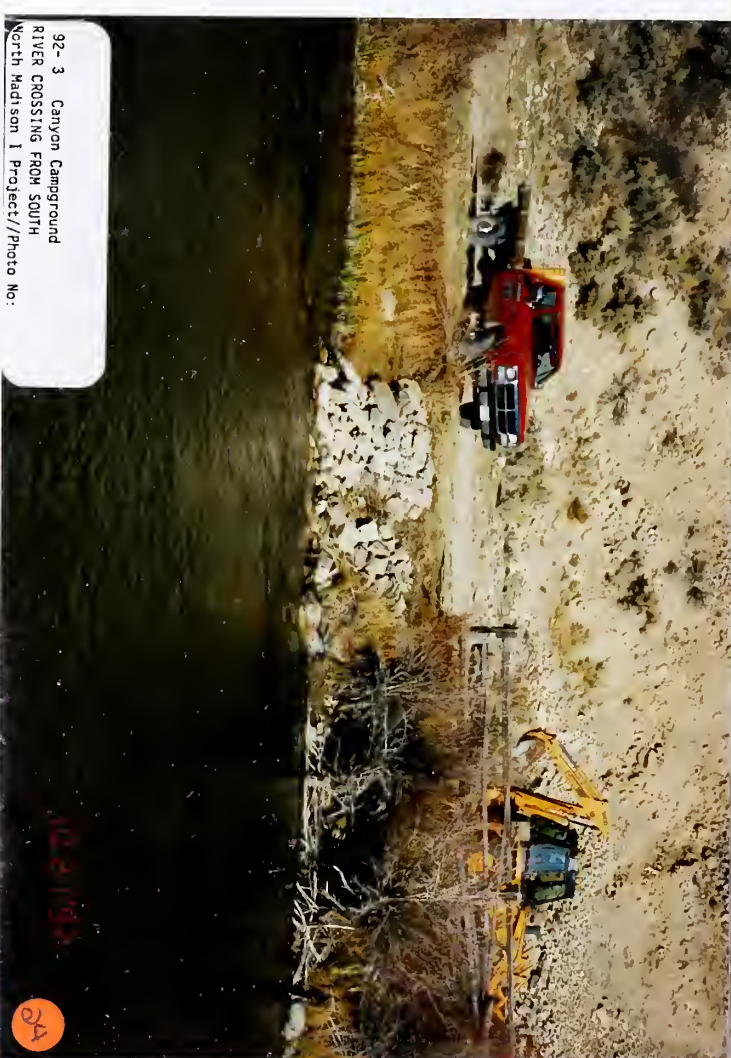
Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site



Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site



92-3 Canyon Campground
RIVER CROSSING FROM SOUTH
North Madison I Project//Photo No:



Northern Madison I/Ruby Mtn
Upper Ruby River Phosphate Lease
Canyon Creek Campground Site





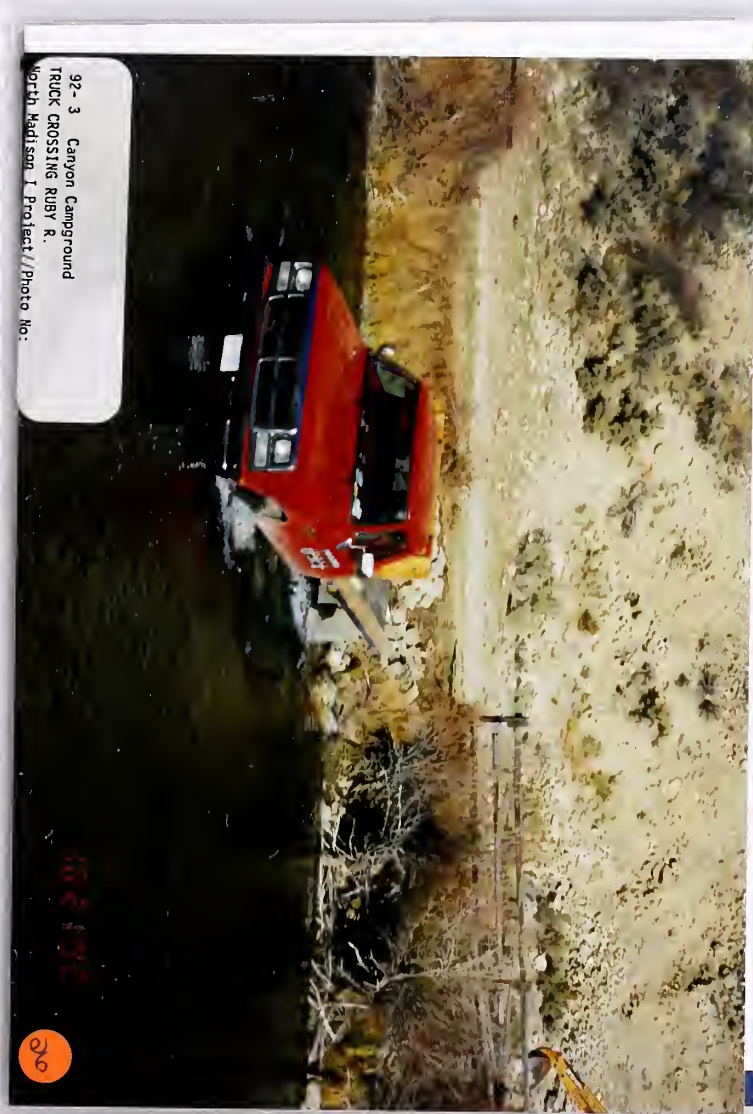
92- 3 Canyon Campground
BEFORE; 50' E OF MAIN PORTAL
North Madison I Project//Photo No:

25



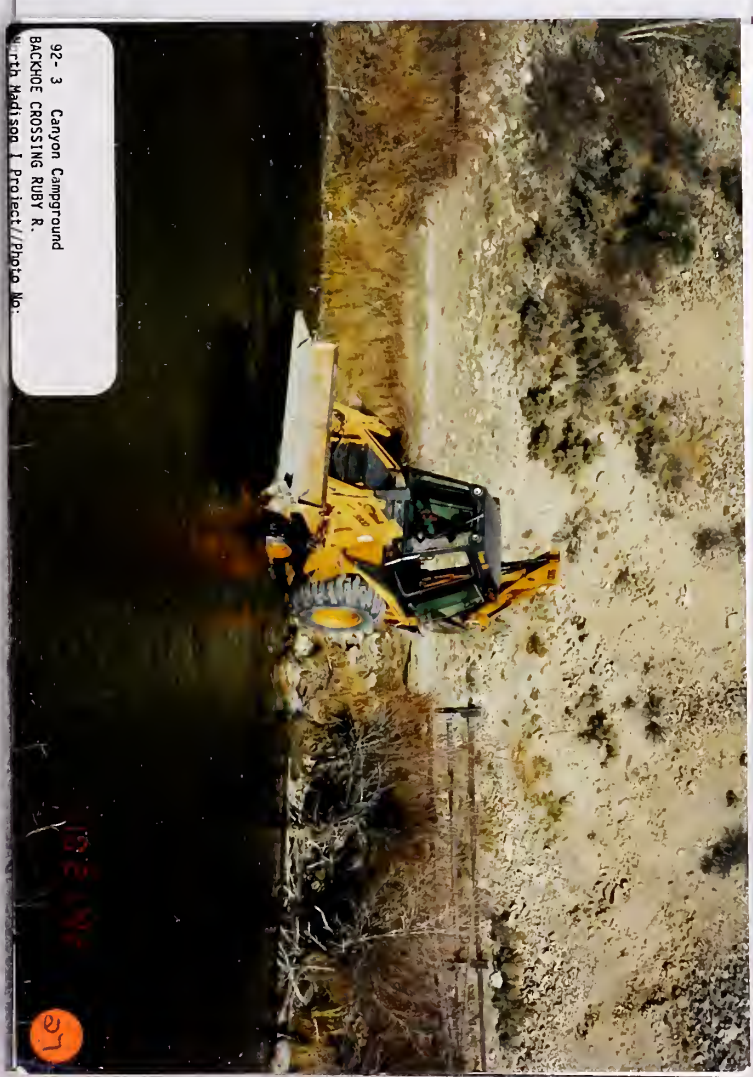
92- 3 Canyon Campground
BEFORE; DEMOLISHING LOADOUT
North Madison I Project//Photo No:

28



92- 3 Canyon Campground
TRUCK CROSSING RUBY R.
North Madison I Project//Photo No:

26



92- 3 Canyon Campground
BACKSIDE CROSSING RUBY R.
North Madison I Project//Photo No:

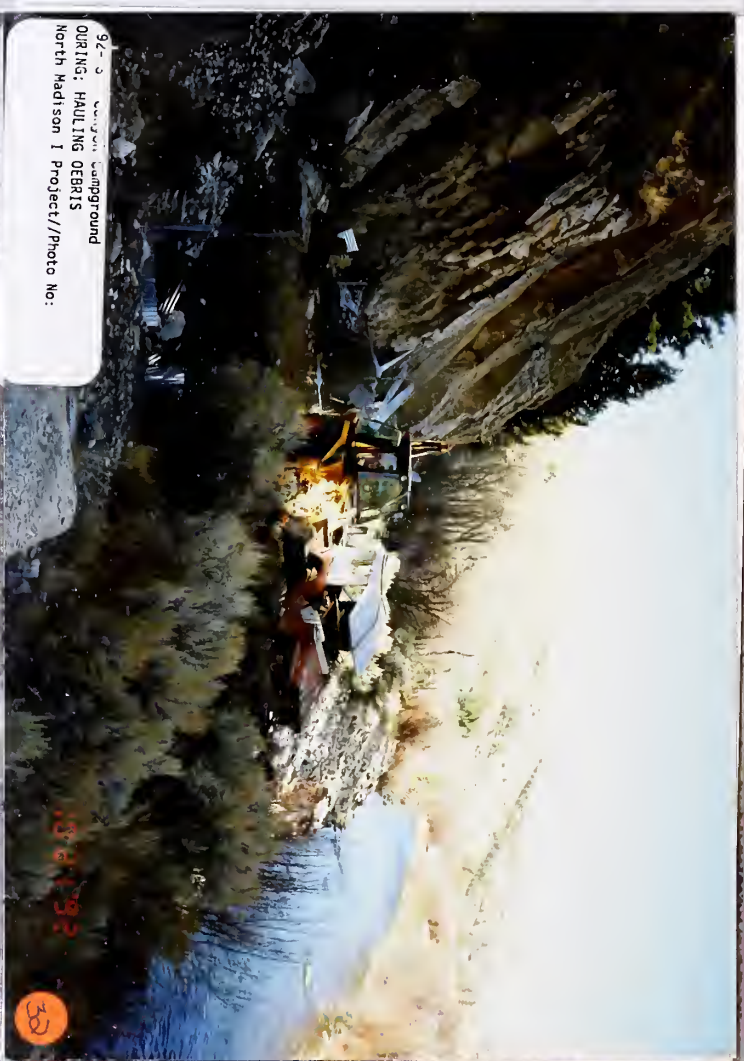
27

92- 3 Canyon Campground
DURING: 50' W. COLLAPSING LOADOUT
North Madison I Project//Photo No:



39

92- 3 Canyon Campground
DURING: HAULING DEBRIS
North Madison I Project//Photo No:



38

92- 3 Canyon Campground
DURING: 20' E OF ONSITE DISPOSAL AREA
North Madison I Project//Photo No:



30

92- 3 Canyon Campground
DURING: REMOVING CONCRETE SLAB
North Madison I Project//Photo No:

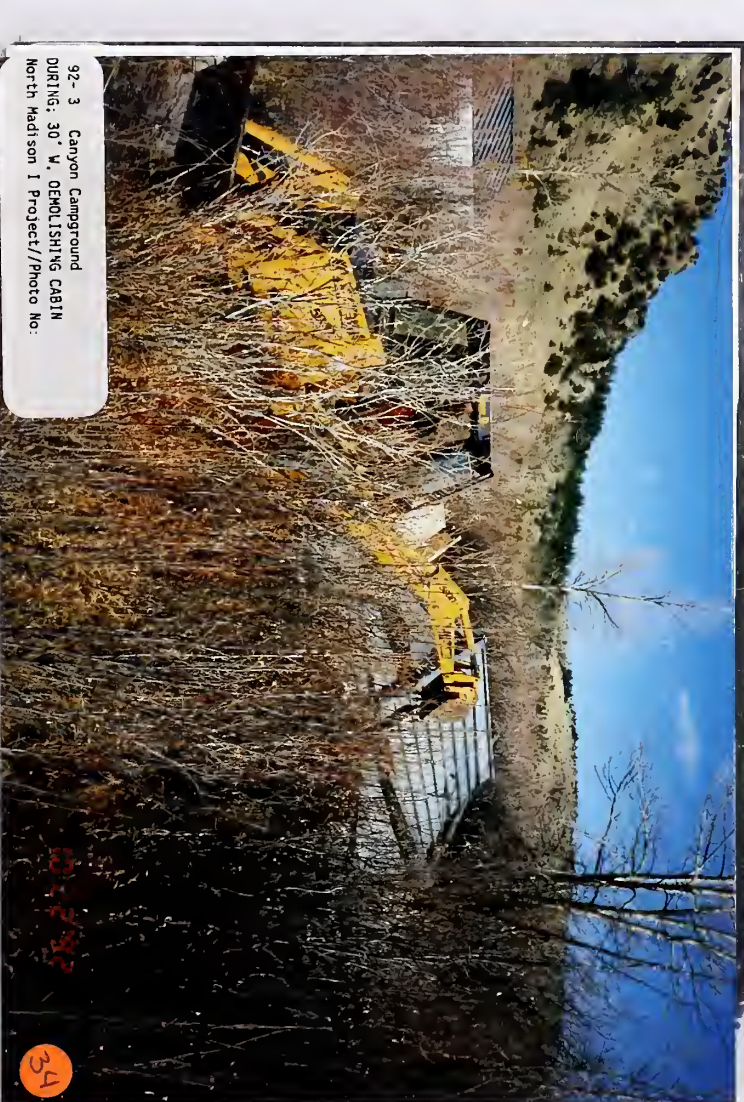


31



92- 3 Canyon Campground
DURING: LOADING DEBRIS
North Madison I Project//Photo No:

33



92- 3 Canyon Campground
DURING: 30' W, DEMOLISHING CABIN
North Madison I Project//Photo No:

34



92- 3 Canyon Campground
DRAINPIPE
North Madison I Project//Photo No:

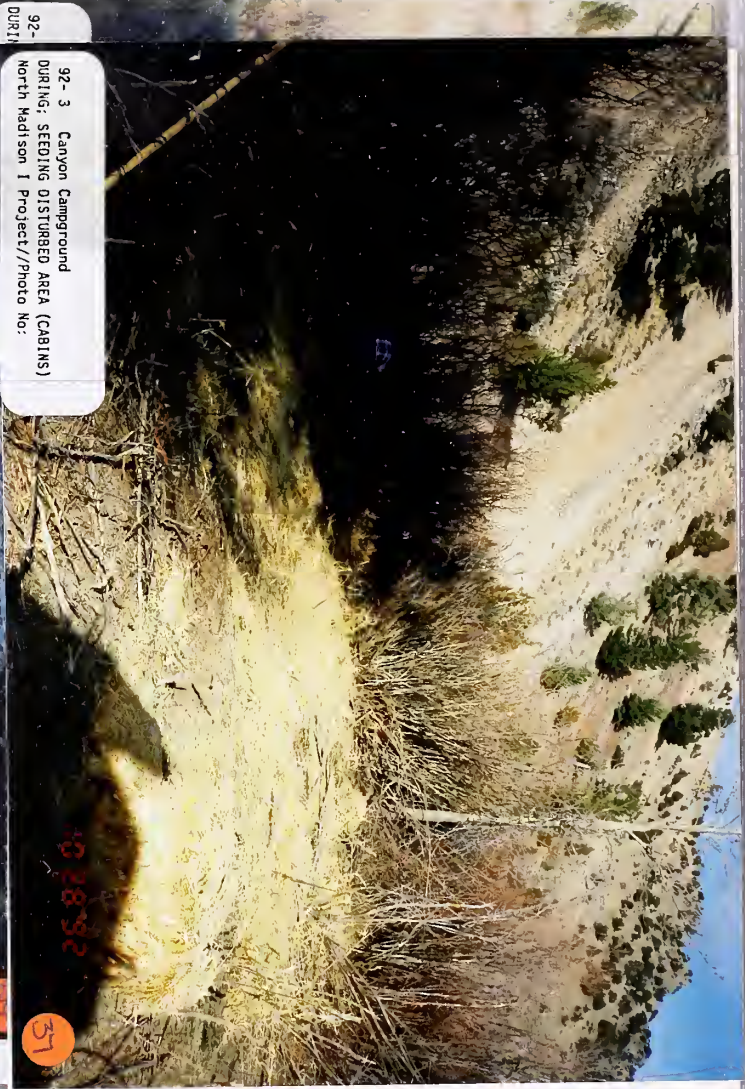
35



92- 3 Canyon Campground
DURING: 10' N OF DRAINPIPE
North Madison I Project//Photo No:

36

92- 3 Canyon Campground
DURING: SEEDING DISTURBED AREA (CABINS)
North Madison I Project//Photo No:
00811



29-092 Ca Lyon Campground
After: Complete Demolition & Seeding
North Madison I Project/Photo No:



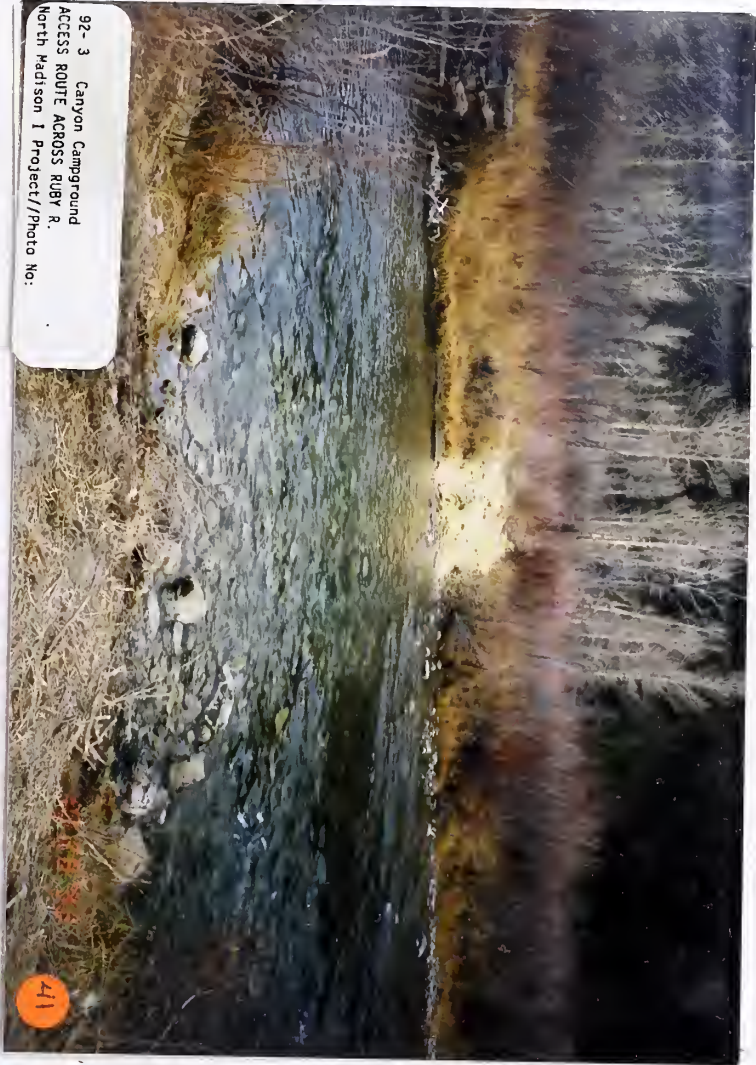
92- 3 Canyon Campground
AFTER: COMPLETE DEMOLITION & SEEDING
North Madison I Project//Photo No:



92- 3 Canyon Campground
AFTER: COMPLETE DEMOLITION & SEEDING
North Madison I Project//Photo No:

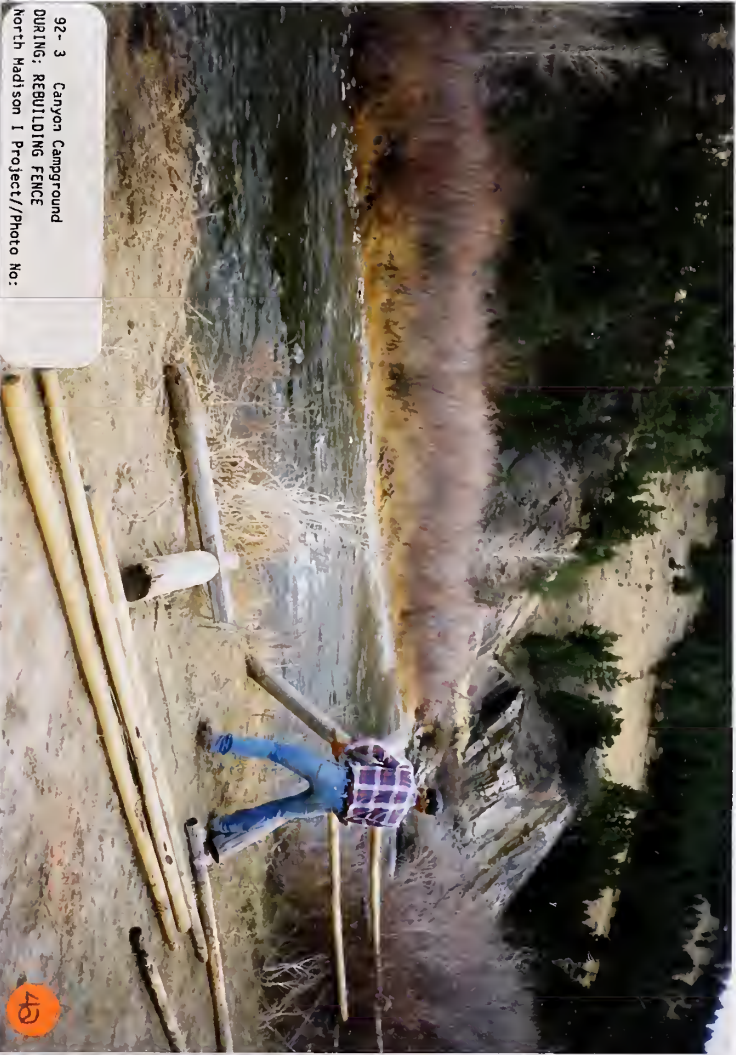


92- 3 Canyon Campground
ACCESS ROUTE ACROSS RUBY R.
North Madison I Project//Photo No:



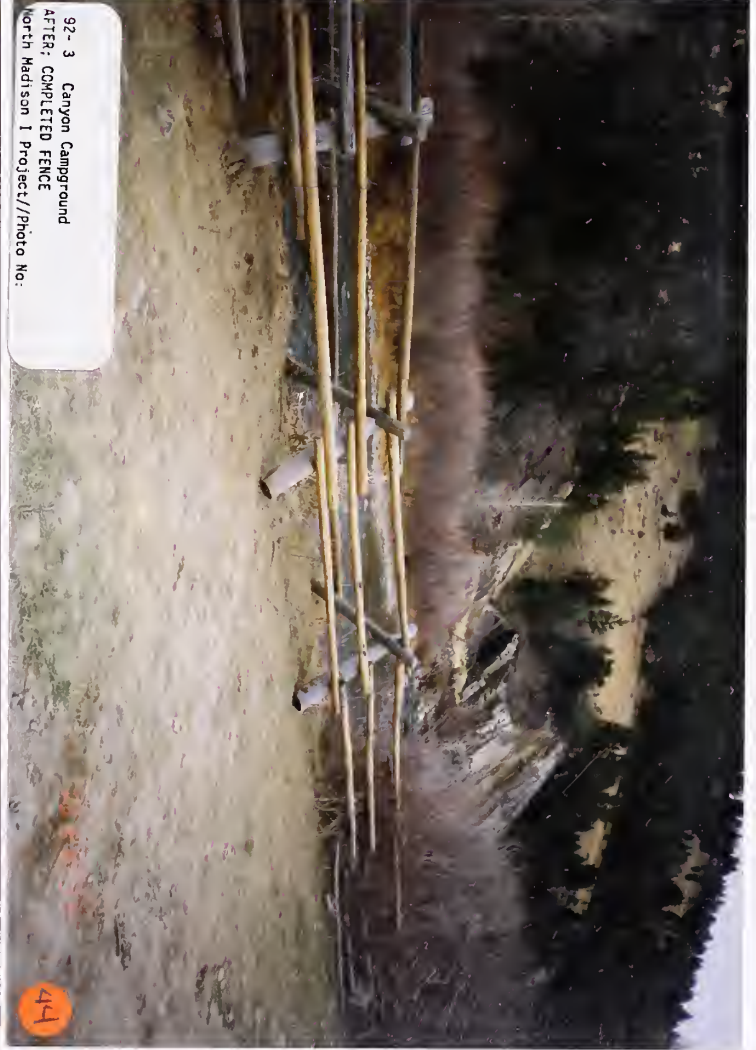
41

92- 3 Canyon Campground
DURING: REBUILDING FENCE
North Madison I Project//Photo No:



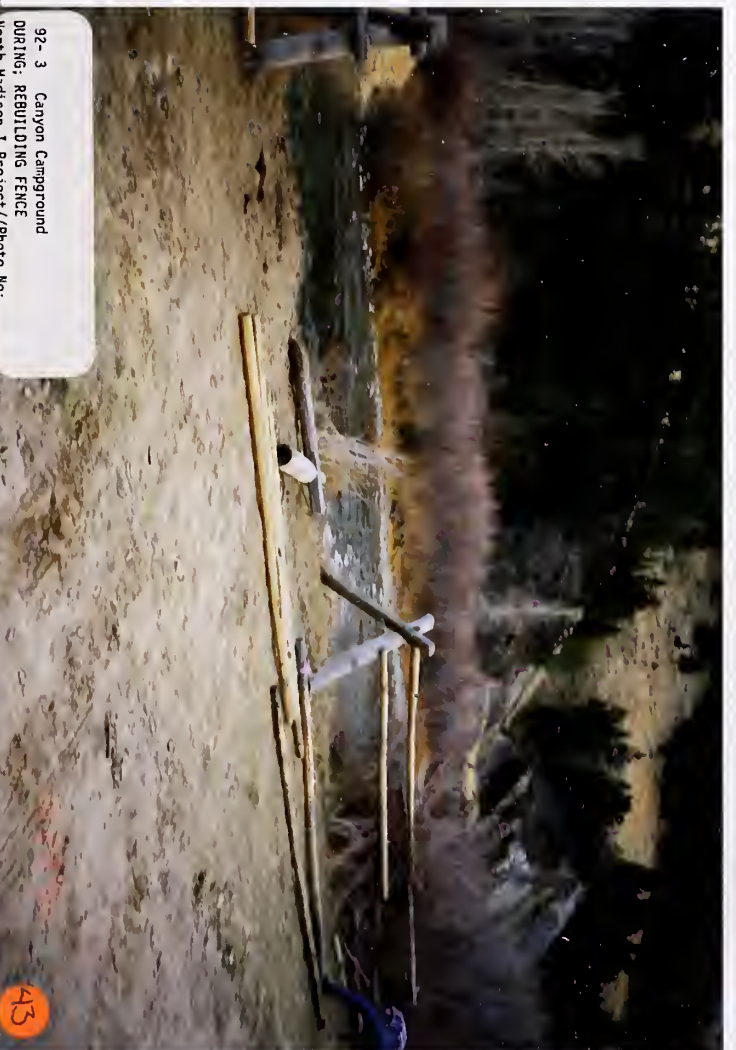
43

92- 3 Canyon Campground
AFTER: COMPLETED FENCE
North Madison I Project//Photo No:



41

92- 3 Canyon Campground
DURING: REBUILDING FENCE
North Madison I Project//Photo No:



43



HMO Project - North Madison
Rochester/Copper-Chief Ellen Marshall
Shaft, 10' S. of opening
157-1



157-2
HMO Project - North Madison
Rochester/Copper-Chief Ellen Marshall
Shaft, 5' N. of opening



29-157 Ellen Marshall
During: Installing Grate, 5' E
Madison 1 Project/Photo No:

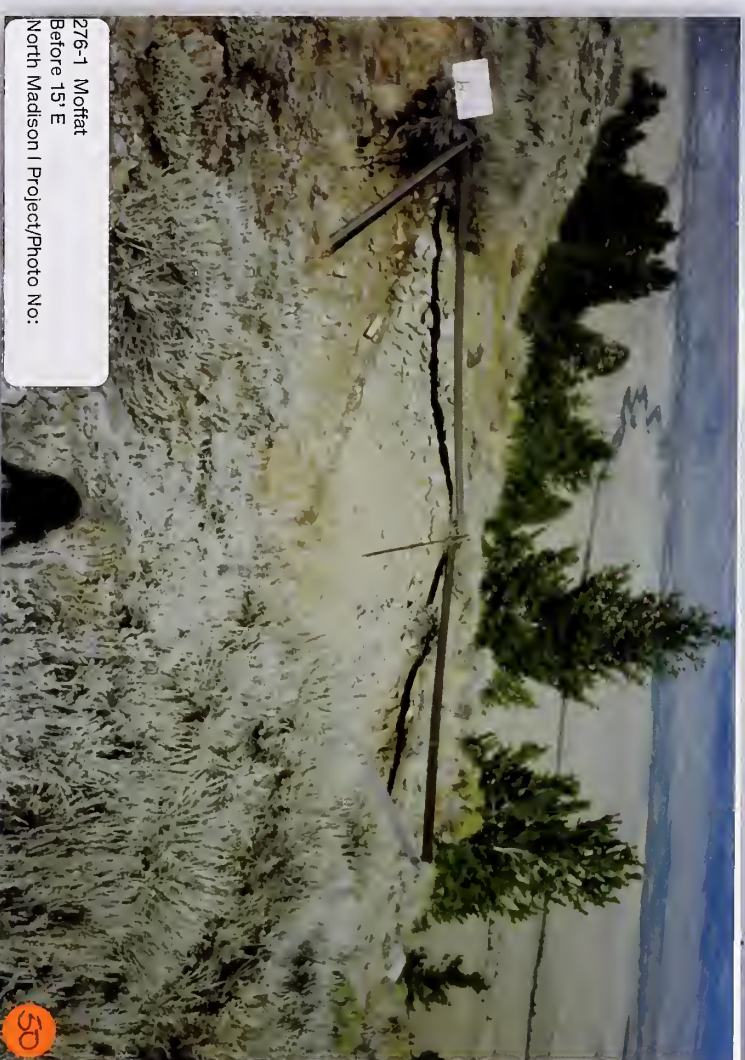


157-1 Ellen Marshall
Complete grate, 5' S
North Madison 1 Project/Photo No:



157-2 Ellen Marshal
Complete grate, 20' E
North Madison I Project/Photo No:

49



276-1 Moffat
Before 15' E
North Madison I Project/Photo No:

50



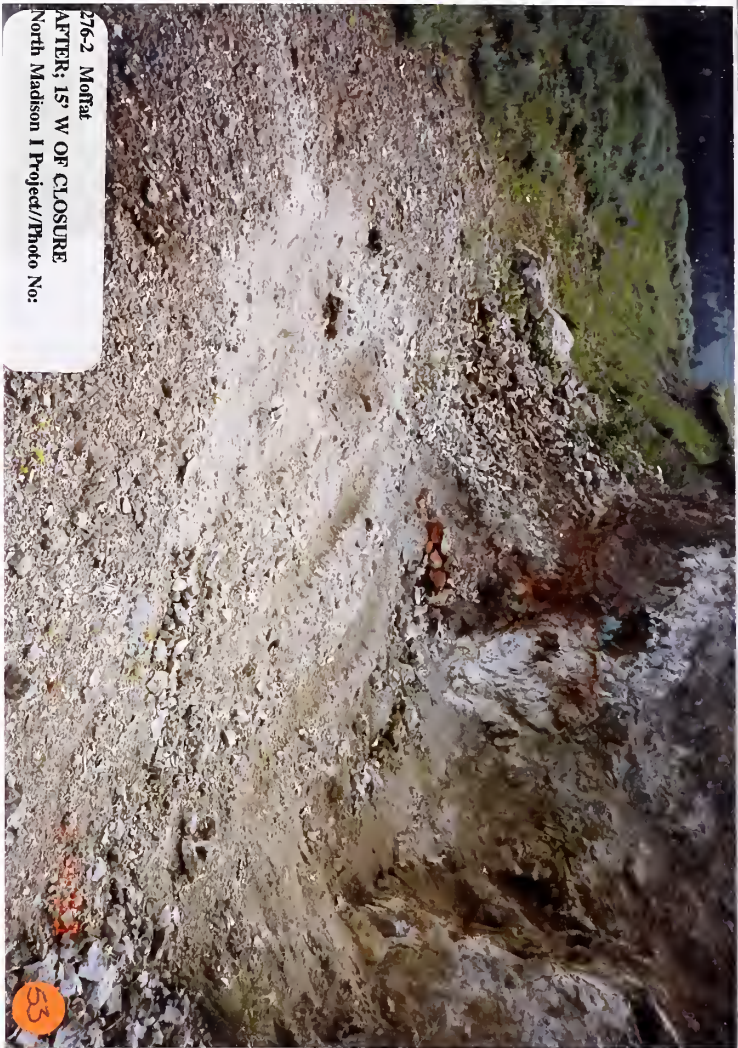
276-2 Moffat
Before 5' W
North Madison Project/Photo No:

53



276-1 Moffat
After: 20' E of Grate
North Madison I Project/Photo No:

61



276-2 Moffat
AFTER: 15' W OF CLOSURE
North Madison I Project/Photo No:

53



Northern Madison I/Tidal Wave
Dry Gulch South/282-1
Before, 10' S of opening

54



282-1 Dry Gulch South
AFTER: 30' S OF COMPLETED CLOSURE
North Madison I Project/Photo No:

56



282-1 Dry Gulch South
DURING: 30' S, BACKFILLING ADIT
North Madison I Project/Photo No:

55



Northern Madison I/Tidal Wave
Dry Gulch South/282-2
Before, 5' S of opening



282- 2 Dry gulch South
DURING: SEALING ADIT
North Madison I Project//Photo No:



282-2 Dry Gulch South
AFTER: 10' E OF ADIT
North Madison I Project//Photo No:



282- 2 Dry gulch South
AFTER: 10' S OF ADIT
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Dry Gulch South/282-3
Before, 10' south of opening

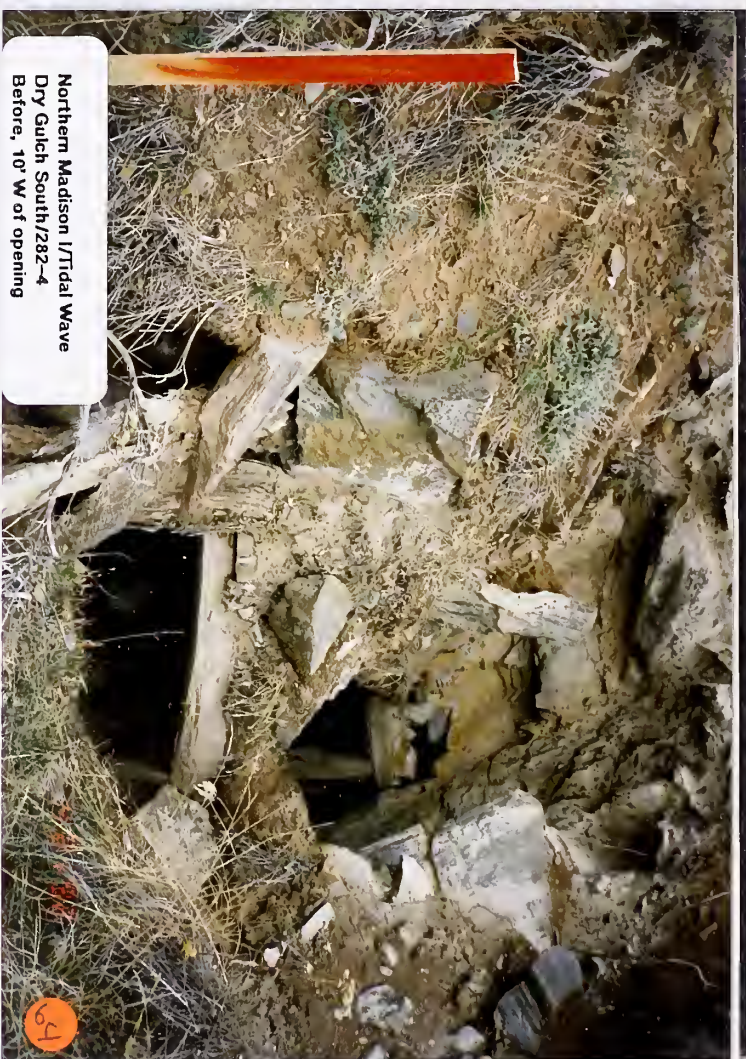
282-3



Before, 10' S of opening

282-3

282-3 Dry Gulch South
10' S OF ADIT
on 1 Project/Photo No:



Northern Madison I/Tidal Wave
Dry Gulch South/282-4
Before, 10' W of opening

282-4



282-3 Dry Gulch South
AFTER: 10' S OF ADIT
North Madison I Project/Photo No:

282-3



282-4 Dry Gulch South
DURING: 20' W OF ADIT
North Madison I Project/Photo No:

85



282-5 Dry Gulch South
Complete closure, 25' S
North Madison I Project/Photo No:

86



282-4 Dry Gulch South
AFTER: 10' N OF ADIT
North Madison I Project/Photo No:

88

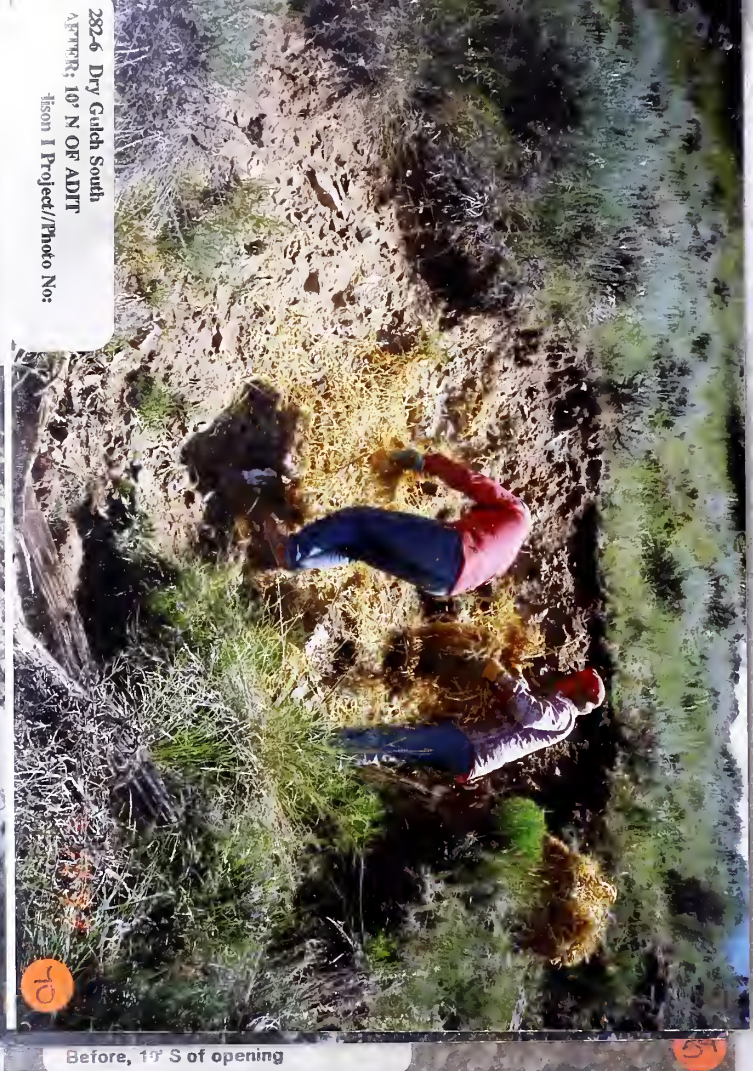


Northern Madison I/Tidal Wave
Dry Gulch South/282-4
Before, 10' west of opening

87



Northern Madison I/Tidal Wave
Dry Gulch South/282-6
Before, 10' W of opening



282-6 Dry Gulch South
AFTER, 10' N OF ADIT
North Madison I Project/Photo No:

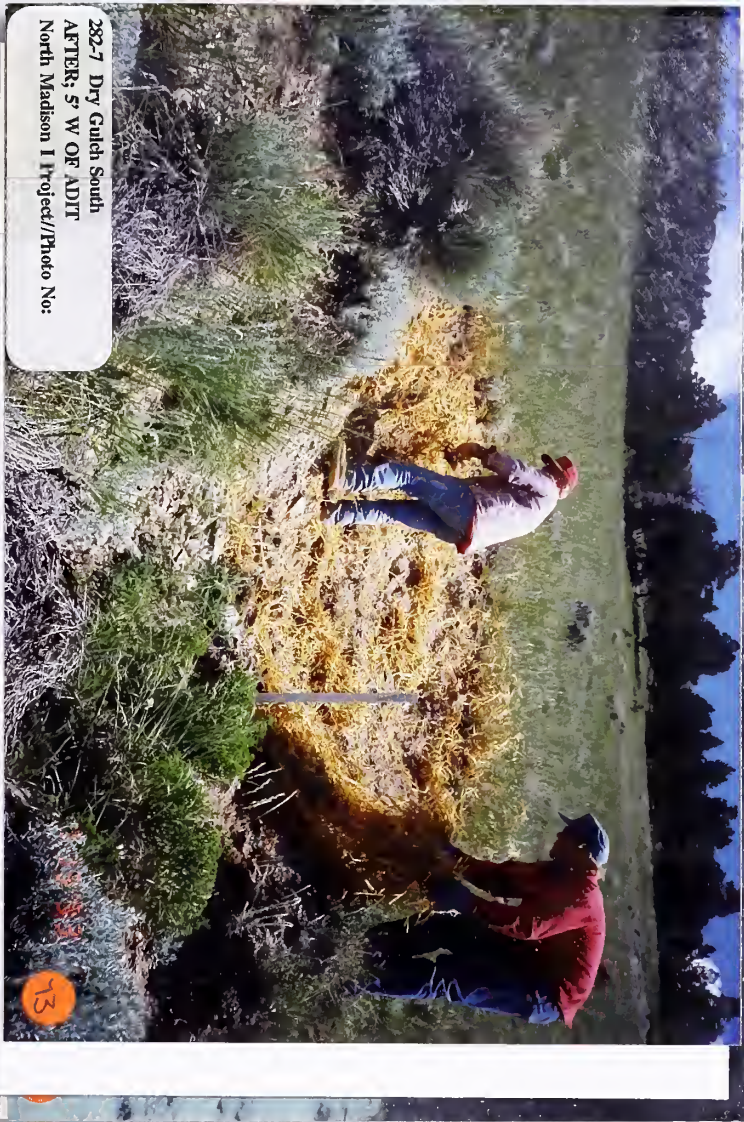
Before, 10' S of opening



282-7 Dry gulch South
AFTER, 10' W OF ADIT
North Madison I Project/Photo No:
Before, 10' W of opening



Northern Madison I/Tidal Wave
Dry Gulch South/282-7
Before, 5' W of opening



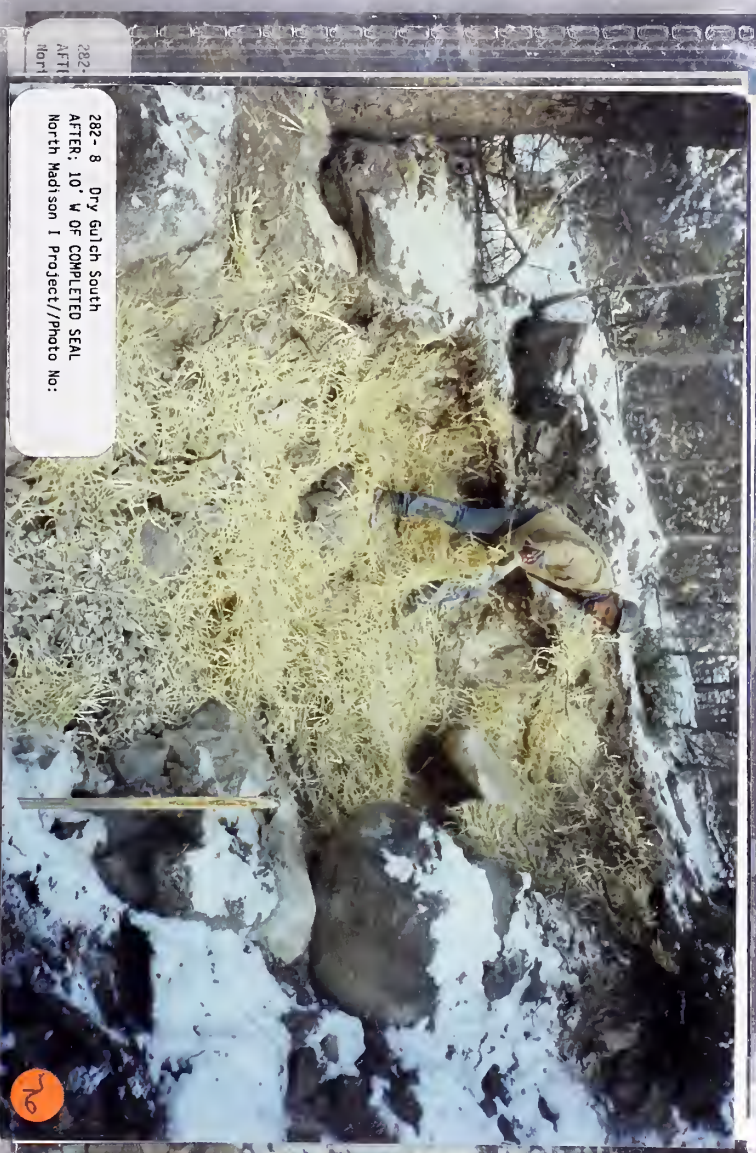
282-7 Dry Gulch South
AFTER; 5' W OF ADIT
North Madison I Project//Photo No:

73



Northern Madison I/Tidal Wave
Dry Gulch South/282-8
Before, 10' W of opening

74



282-8 Dry Gulch South
AFTER; 10' W OF COMPLETED SEAL
North Madison I Project//Photo No:

75



282-8 Dry Gulch South
OURING; 20' W, REMOVING PORTAL
North Madison I Project//Photo No:

76



Northern Madison I/Tidal Wave
Dry Gulch South/282-9
Before, 5' W of opening



282-10 Dry gulch South
DURING: 20' W, TOPSOIL SALVAGE
North Madison I Project/Photo No:



282-9 Dry Gulch South
AFTER: COMPLETED ADIT SEAL
Madison I Project/Photo No:



Northern Madison I/Tidal Wave
Dry Gulch South/282-10
Before, 15' W of opening



282-10 Dry Gulch South
 AFTER: 50' W OF COMPLETED CLOSURE
 North Madison I Project//Photo No:



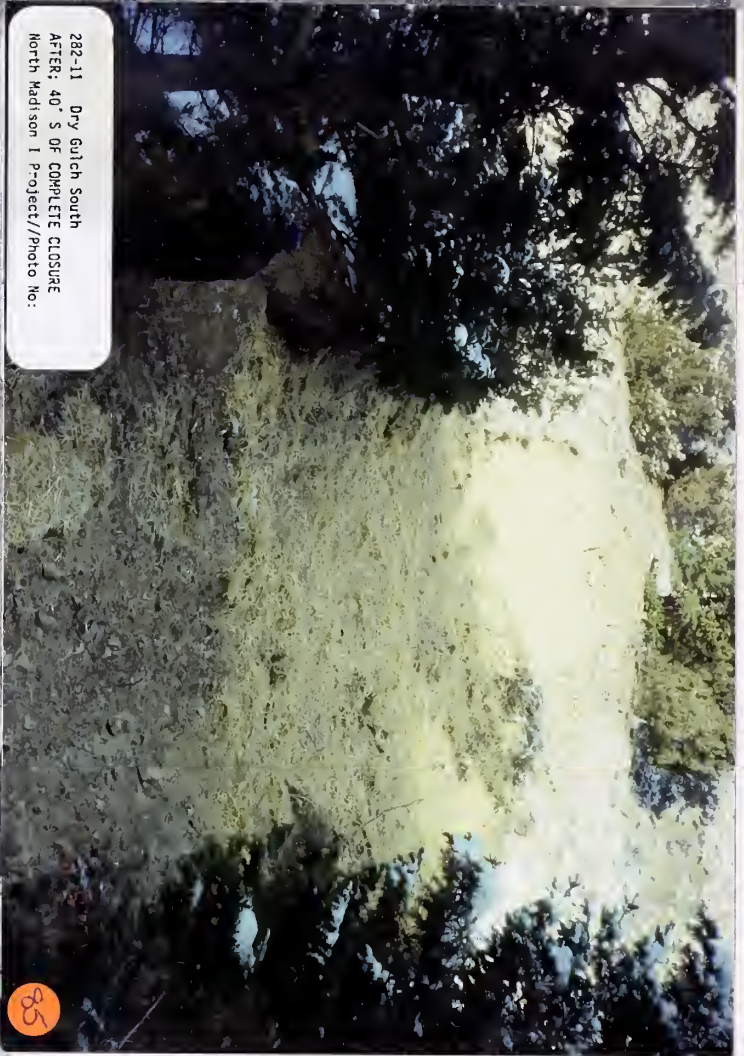
282-10 Dry Gulch South
 DURING: 50' W, BACKFILLING ADIT
 North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
 Dry Gulch South/282-11
 Before, 10' S of opening



282-11 Dry Gulch South
 AFTER: 30' S OF ADIT: BACKFILLING
 North Madison I Project//Photo No:



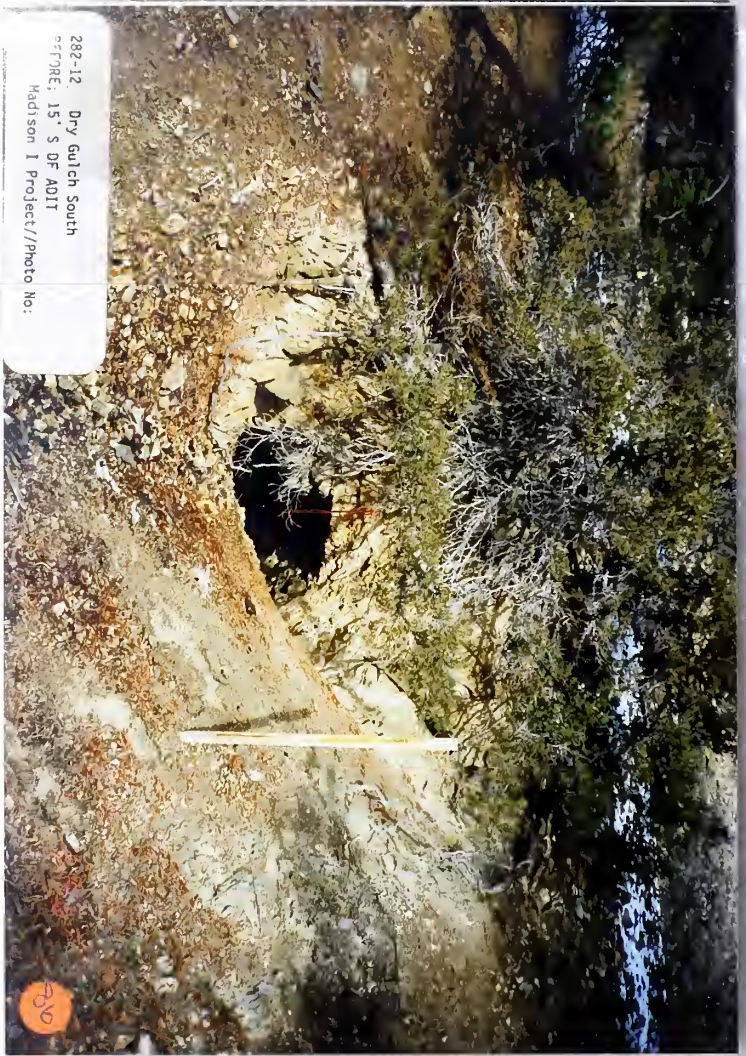
282-11 Dry gulch South
AFTER: 40' S OF COMPLETE CLOSURE
North Madison I Project//Photo No:

85



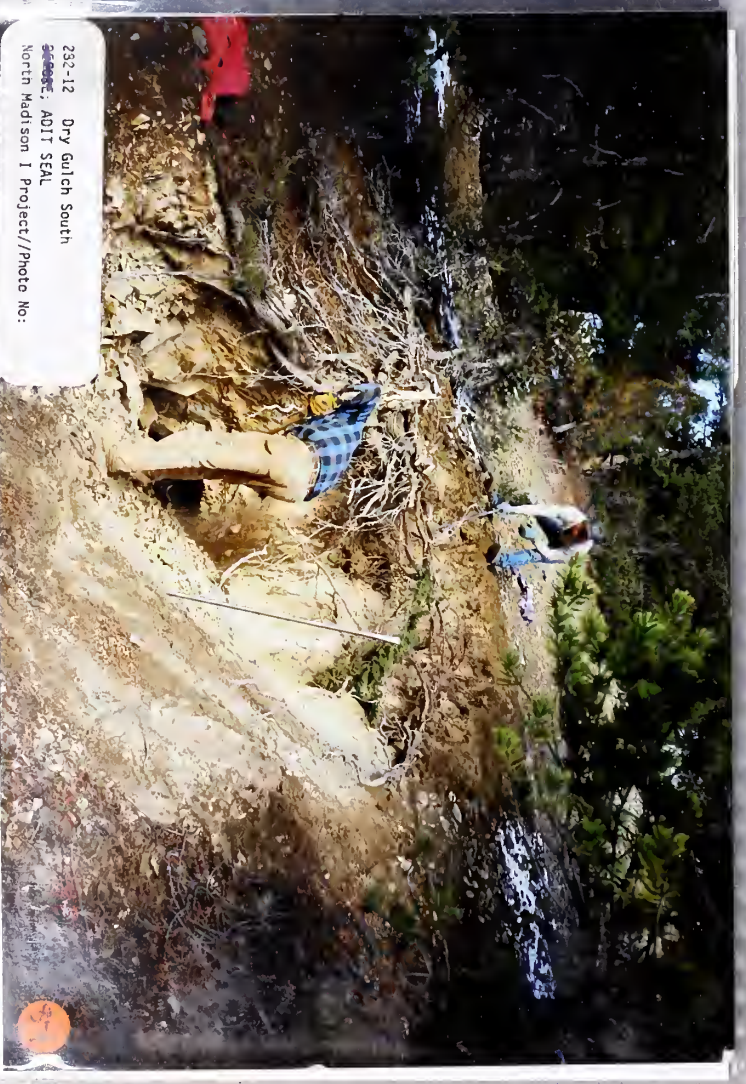
282-12 Dry gulch South
AFTER: 20' S OF ADIT
North Madison I Project//Photo No:

86



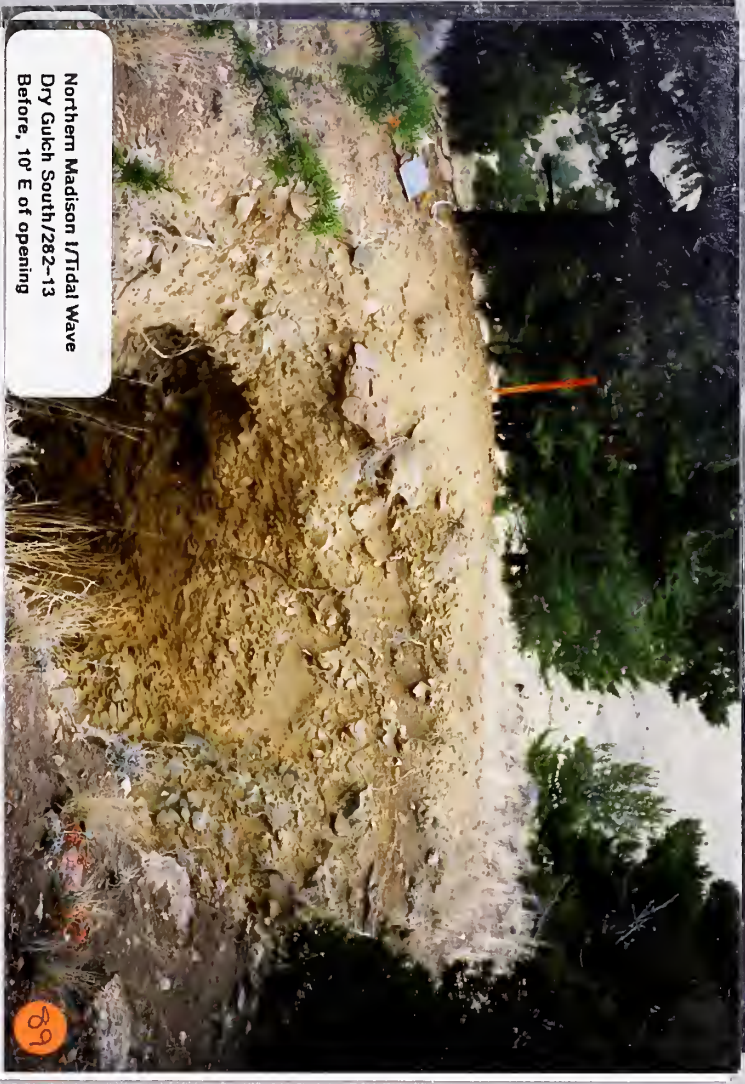
282-12 Dry gulch South
AFTER: 15' S OF ADIT
North Madison I Project//Photo No:

87



282-12 Dry gulch South
AFTER: ADIT SEAL
North Madison I Project//Photo No:

88



Northern Madison I/Tidal Wave
Dry Gulch South/282-13
Before, 10' E of opening



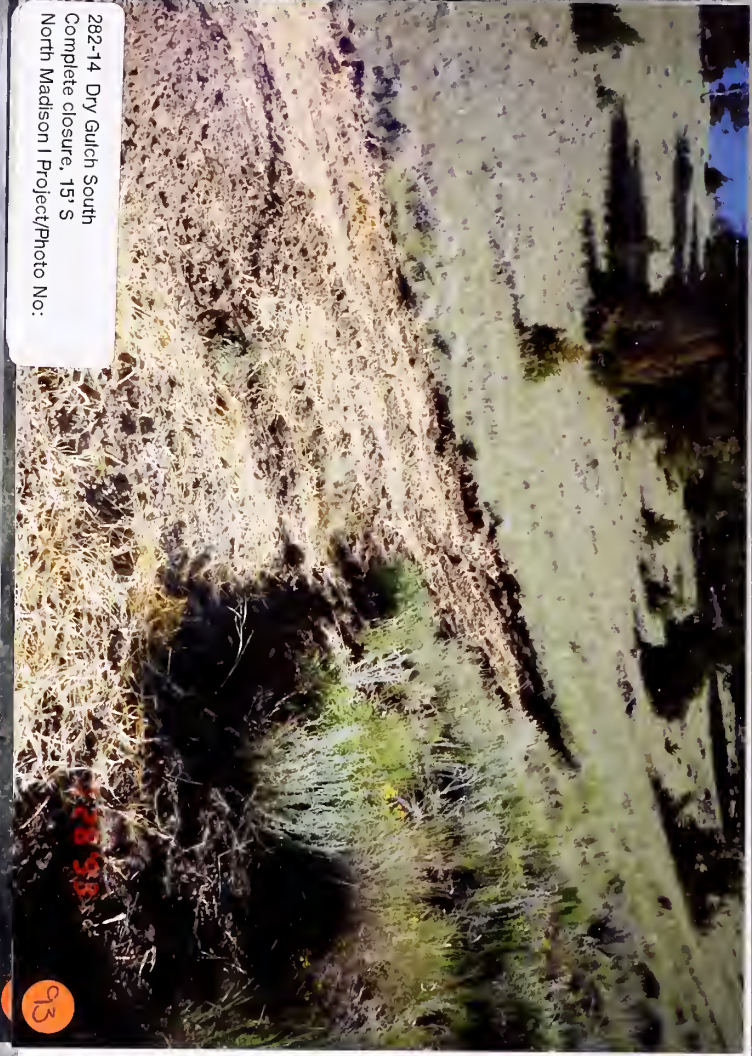
282-28 Dry Gulch South
Complete grate, 10' N
North Madison I Project/Photo



282
AFTI
North
Northern Madison I/Tidal Wave
Dry Gulch South/282-14
Before, 10' west of opening



282-13 Dry Gulch South
After: 20' E of Grate
North Madison I Project/Photo



282-14 Dry Gulch South
Complete closure, 15' S
North Madison I Project/Photo No:

93



282-15 Dry Gulch South
After, 10' N of completed closure
North Madison I Project/Photo No:

96



Northern Madison I/Tidal Wave
Dry Gulch South/282-15
Before, 10' N of opening

94



Northern Madison I/Tidal Wave
Dry Gulch South/282-15
Before, 5' S of opening

95



282-15 Dry gulch South
AFTER: 10' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:

97



282-16 Dry gulch South
AFTER: 40' S OF SEEDING AREA
North Madison I Project//Photo No:

100

108



Northern Madison I/Tidal Wave
Dry Gulch South/282-16
Before, 5' W of opening

98



282-16 Dry gulch South
AFTER: 25' W OF COMPLETE SHAFT CLOSURE
North Madison I Project//Photo No:

99



Northern Madison I/Tidal Wave
Dry Gulch South/282-17
Before, east edge of shaft

North Madison I Project/Photo No:

101



Northern Madison I/Tidal Wave
Dry Gulch South/282-18
Before, 30' west of opening

North Madison I Project/Photo No:

102



282-17 Dry Gulch South
Before, 15' N OF SHAFT, BACKFILLING
North Madison I Project/Photo No:

Before, to be re-opening

103



282-17 Dry Gulch South
AFTER, 20' S OF COMPLETED CLOSURE
North Madison I Project/Photo No:

Before, to be re-opening

104



29-282 Dry Gulch South
DURING: BACKFILLING SHAFT
North Madison 1 Project/Photo No:

105



29-282 Dry Gulch South
After: Seeded Area (Tracking)
North Madison 1 Project/Photo No:

108



29-282 Dry Gulch South
After: Complete Closure # 18 & 24
North Madison 1 Project/Photo No:

100



29-282 Dry Gulch South
After: Tracking Mulch
North Madison 1 Project/Photo No:

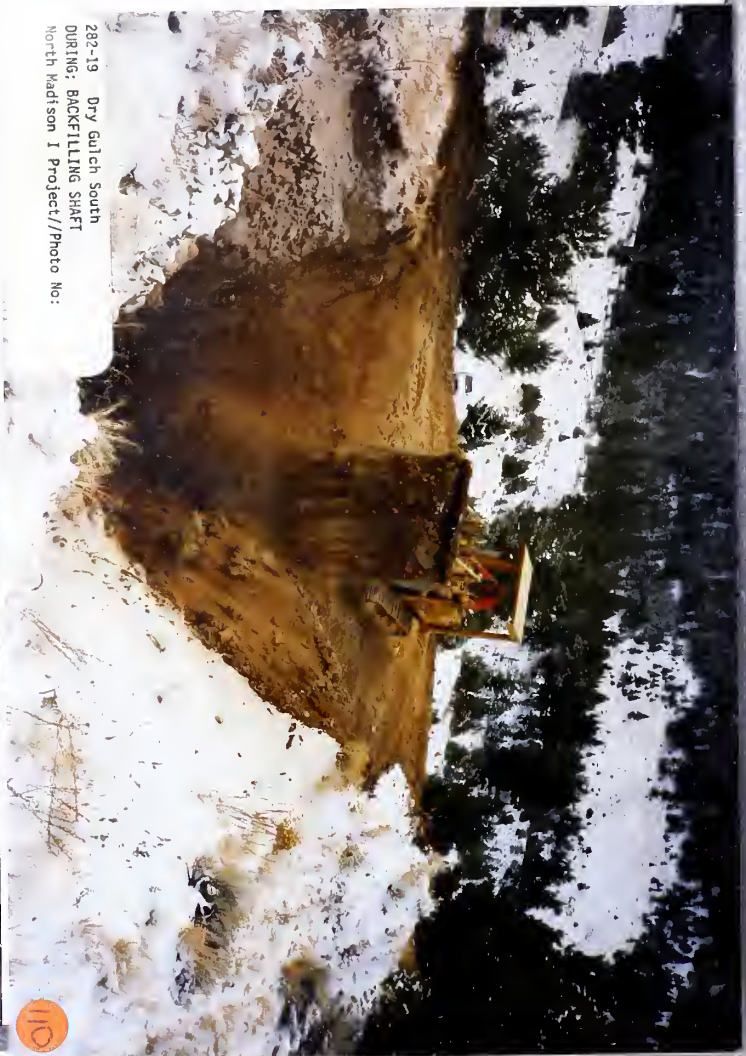
101



Northern Madison I/Tidal Wave
Dry Gulch South/282-19
Before, 10' west of opening



282-19 Dry Gulch South
AFTER: 30' E OF SHAFT, TRACKING MULCH
North Madison I Project//Photo No:



282-19 Dry Gulch South
DURING: BACKFILLING SHAFT
North Madison I Project//Photo No:



282-19 Dry Gulch South
AFTER: 30' E OF SHAFT
North Madison I Project//Photo No:

282-20 Dry Gulch South
BEFORE: 25' S OF ADIT
North Madison I Project//Photo No:



113

282-20 Dry Gulch South
DURING: 30' S OF ADIT, BACKFILLING
North Madison I Project//Photo No:



116

282-20 Dry Gulch South
DURING: 30' S OF ADIT
North Madison I Project//Photo No:



114

282-20 Dry Gulch South
DURING: 30' S OF ADIT, BACKFILLING
North Madison I Project//Photo No:



115



282-20 Dry Gulch South
AFTER: 30' S OF CLOSED ADIT
North Madison I Project//Photo No:

117



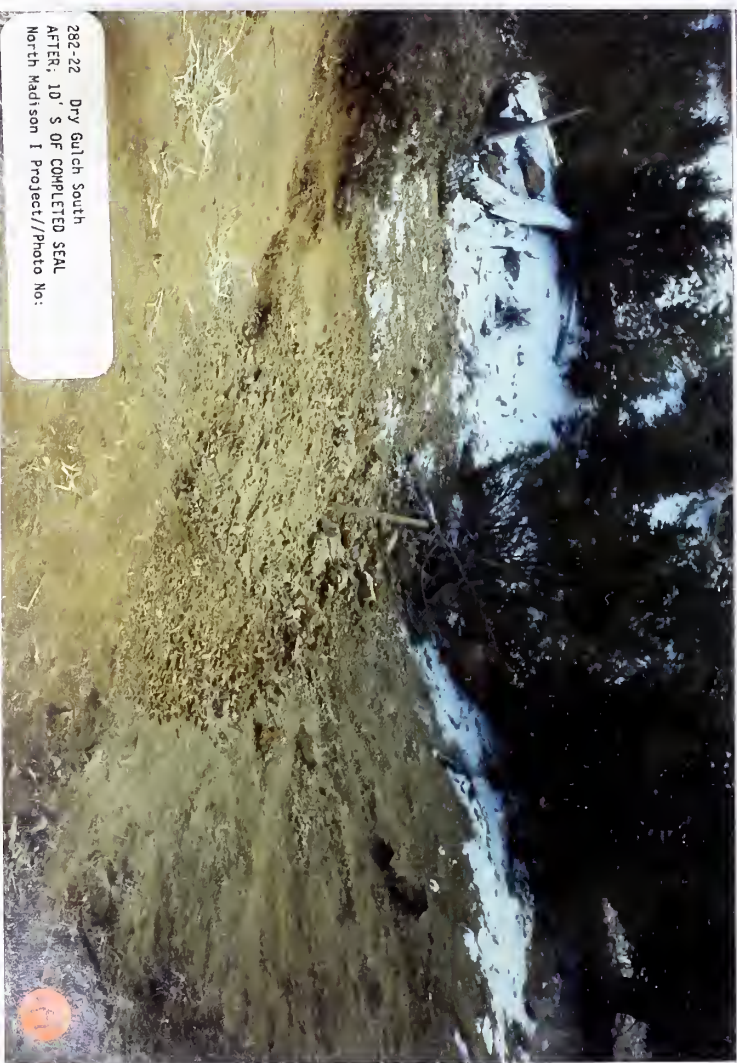
North Madison I/Tidal Wave
Dry Gulch South/282-23
Before, 5' S of opening

120



North Madison I/Tidal Wave
Dry Gulch South/282-22
Before, 5' S of opening

116



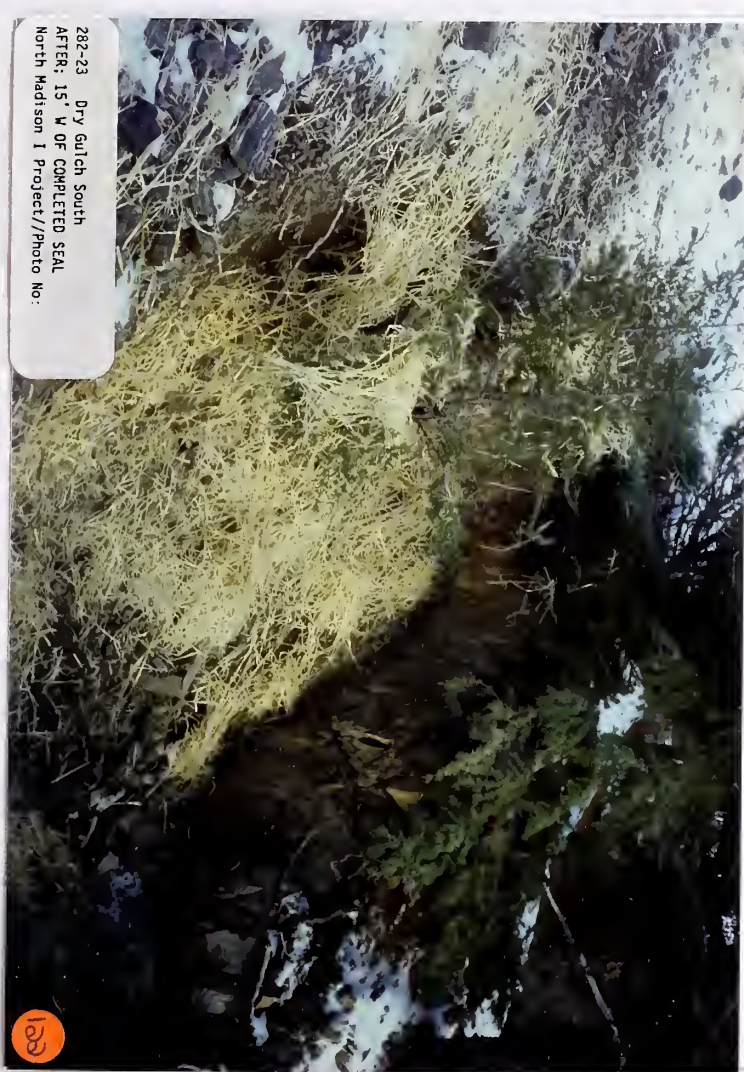
282-22 Dry Gulch South
AFTER: 10' S OF COMPLETED SEAL
North Madison I Project//Photo No:

122



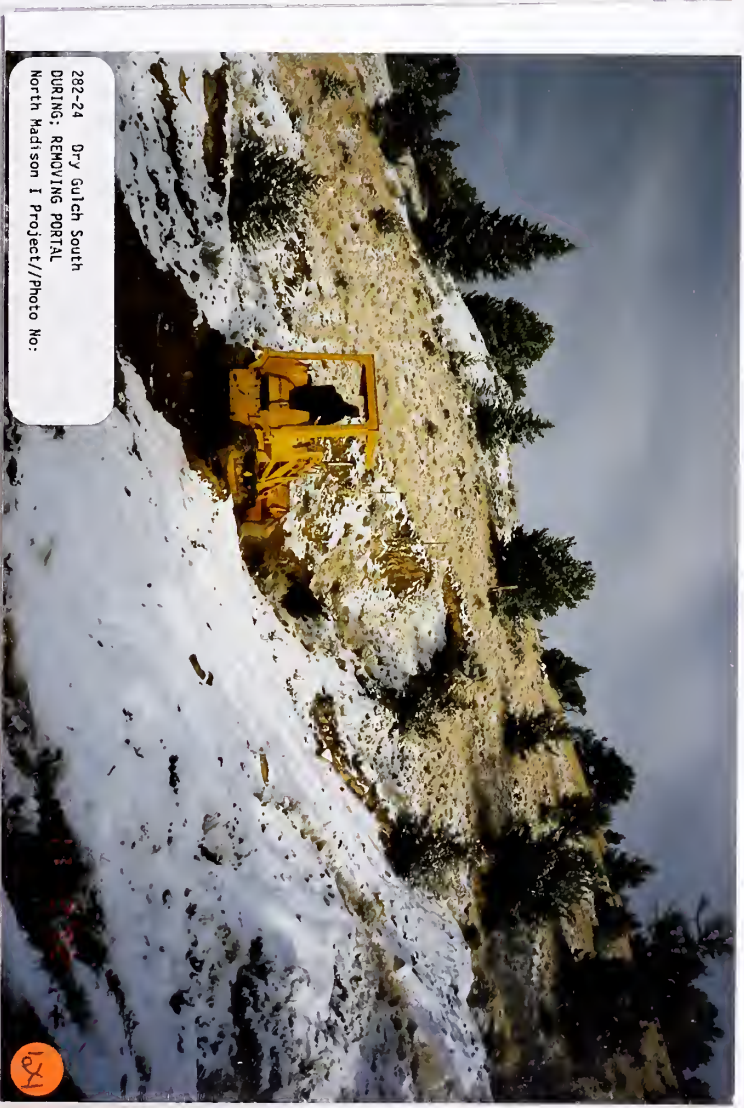
282-23 Dry Gulch South
DURING: 15' W OF ADIT
North Madison I Project//Photo No:

101



282-23 Dry Gulch South
AFTER: 15' W OF COMPLETED SEAL
North Madison I Project//Photo No:

102



282-24 Dry Gulch South
DURING: REMOVING PORTAL
North Madison I Project//Photo No:

103



Northern Madison I/Tidal Wave
Dry Gulch South/282-24
Before, 20' south of opening

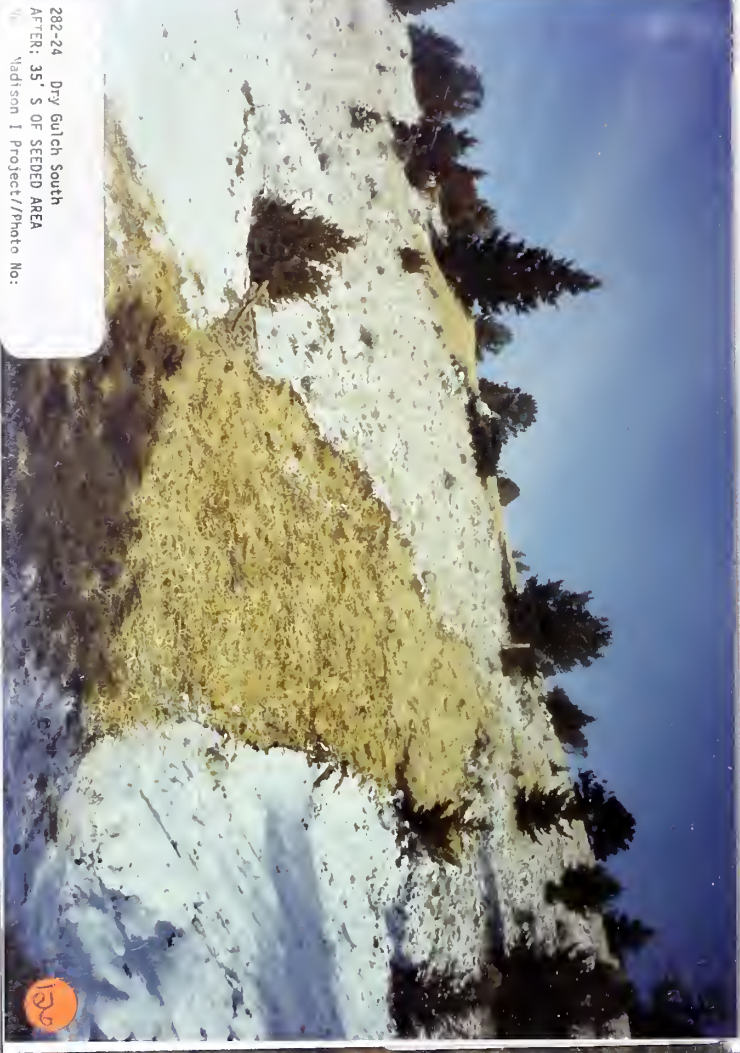
104



282-24 Dry Gulch South
DURING: BACKFILLING ADIT TRENCH
North Madison 1 Project//Photo No:



282-25 Dry Gulch South
DURING: 50' N OF SHAFT, GRATE INST.
North Madison 1 Project//Photo No:



282-24 Dry Gulch South
AFTER: 35' S OF SEEDD AREA
North Madison 1 Project//Photo No:



Northern Madison I/Tidal Wave
Dry Gulch South/282-25
Before, 10' N of opening



282-25 Dry Gulch South
Complete grate, 10' N
North Madison I Project//Photo No:



282-26 Dry Gulch South
BEFORE: 10' S OF ADIT
North Madison I Project//Photo No:



282-26 Dry Gulch South
AFTER: 10' S OF ADIT
North Madison I Project//Photo No:



282-26 Dry Gulch South
DURING: SEALING ADIT
North Madison I Project//Photo No:



282-27 Dry Gulch South
DURING, 25' S OF ADIT
North Madison I Project//Photo No:

133



284-1 Smith Reservoir
AFTER, 15' S OF ADIT
North Madison I Project//Photo No:

130



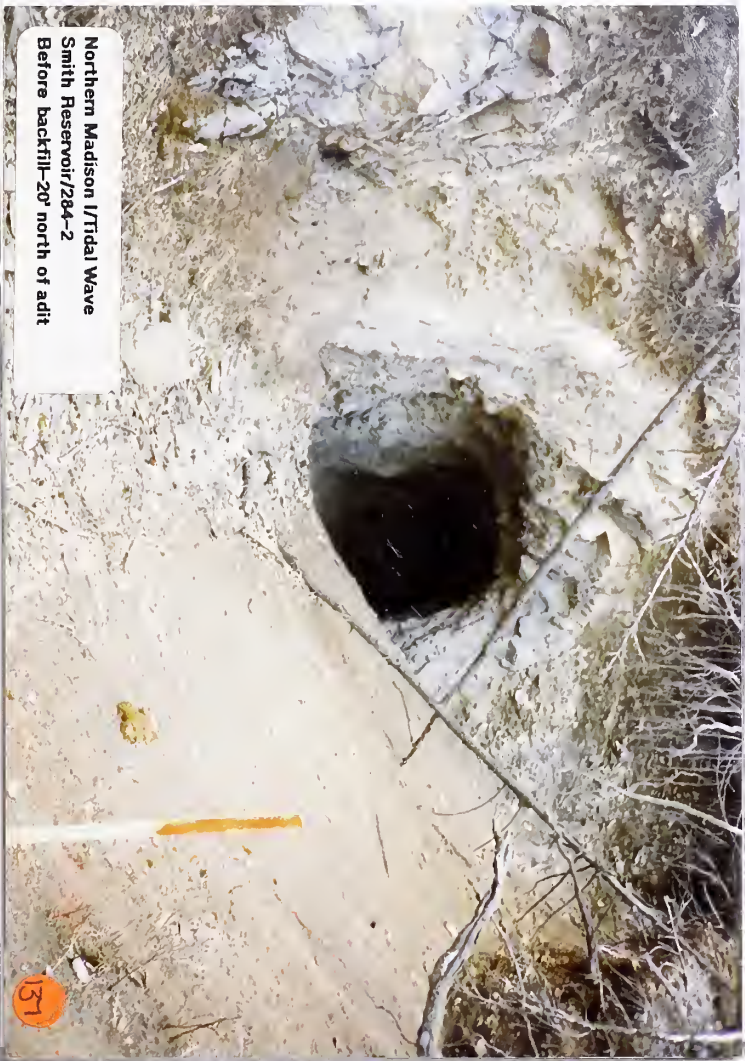
282-27 Dry Gulch South
3' N OF COMPLETED SEAL
SON I Project//Photo No:

134



Northern Madison I/Tidal Wave
Smith Reservoir/284-1
Before backfill-10' west of adit

135



Northern Madison I/Tidal Wave
Smith Reservoir/284-2
Before backfill-20' north of adit



284- 2 Smith Reservoir
AFTER: 20' N OF ADIT
North Madison I Project//Photo No:



286- 1 Smith Reservoir South
AFTER: 20' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Smith Reservoir South/286-1
Before, 20' west of opening



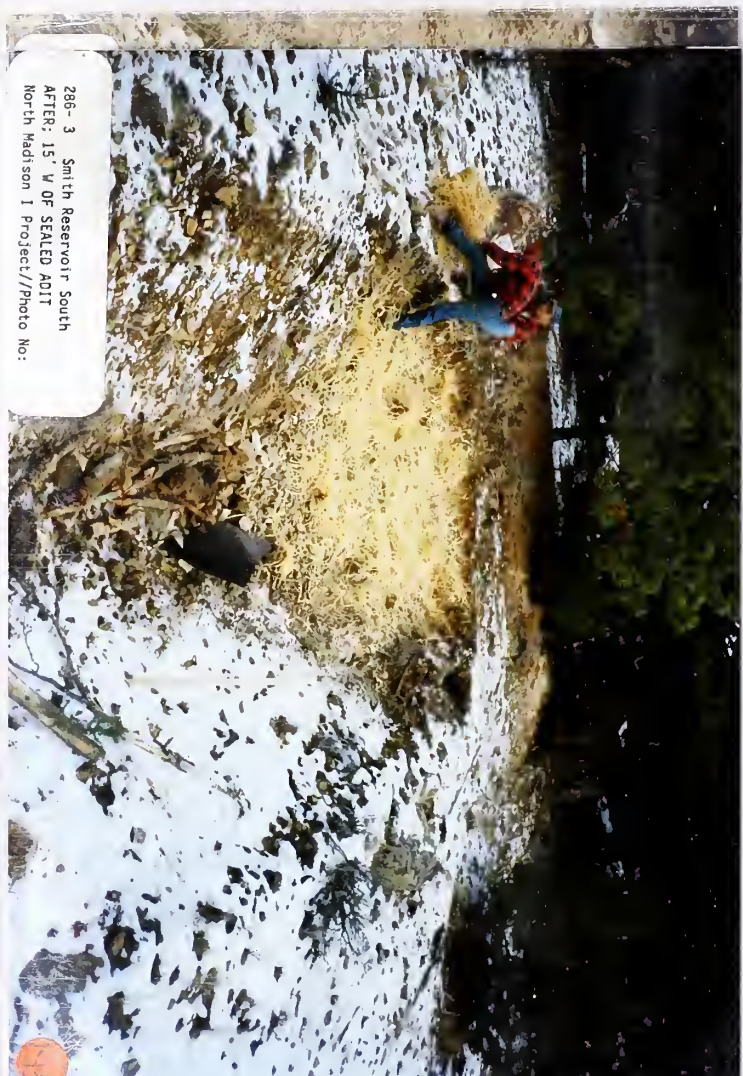
Northern Madison I/Tidal Wave
Smith Reservoir South/286-3
Before, 15' W of opening



286-3 Smith Reservoir South
During, 15' W of ADIT
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Smith Reservoir South/286-4
Before, 10' west of opening



286-3 Smith Reservoir South
After, 15' W of SEALED ADIT
North Madison I Project//Photo No:



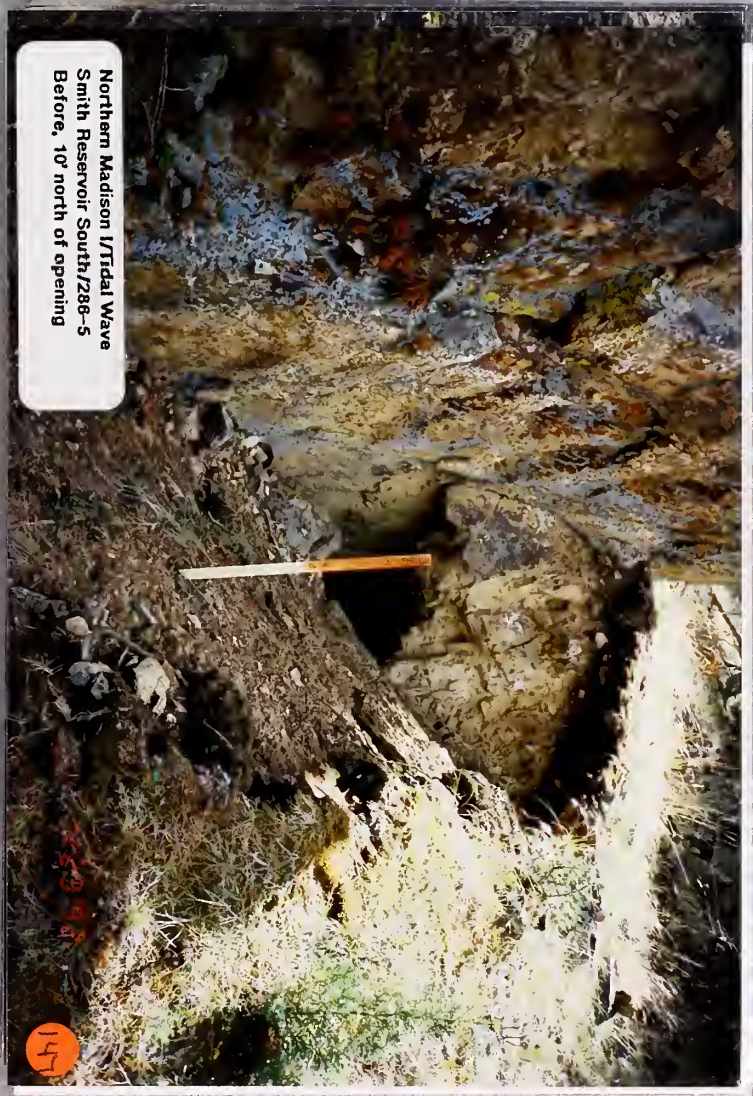
286- 4 Smith Reservoir South
DURING: 15' W, BACKFILLING ADIT
North Madison I Project//Photo No:



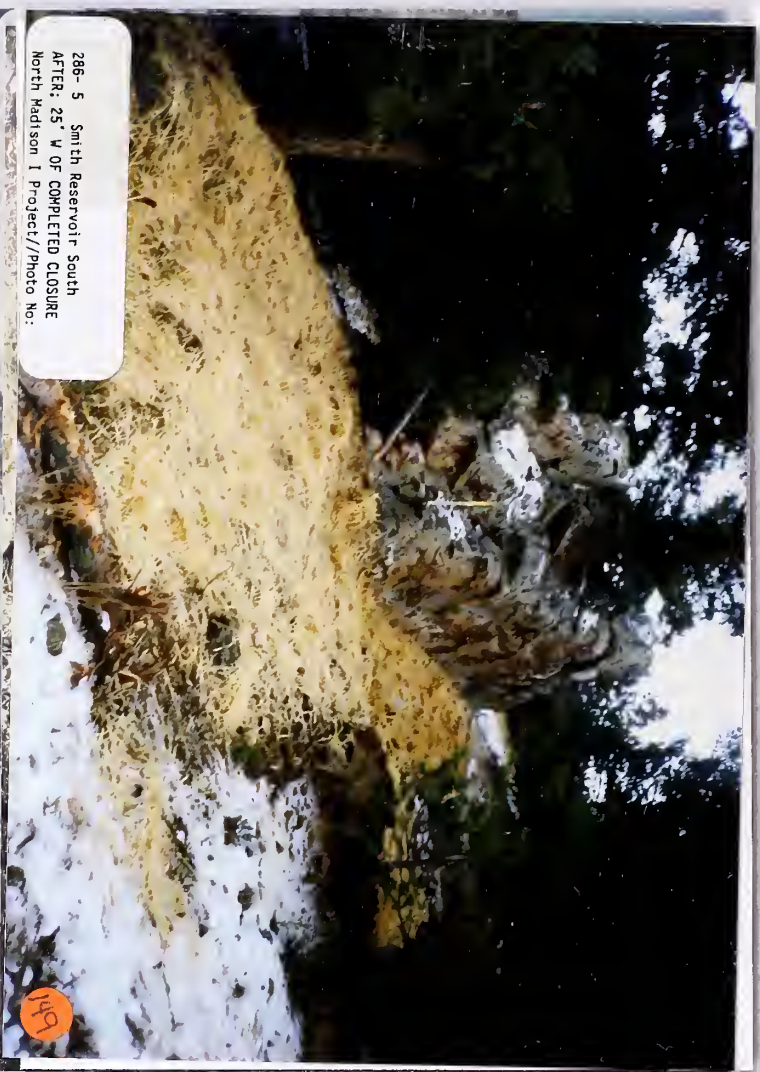
286- 4 Smith Reservoir South
AFTER: 20' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:



286- 5 Smith Reservoir South
DURING: 20' W, BACKFILLING ADIT
North Madison I Project//Photo No:



North Madison I/Tidal Wave
Smith Reservoir South/286-5
Before, 10' north of opening



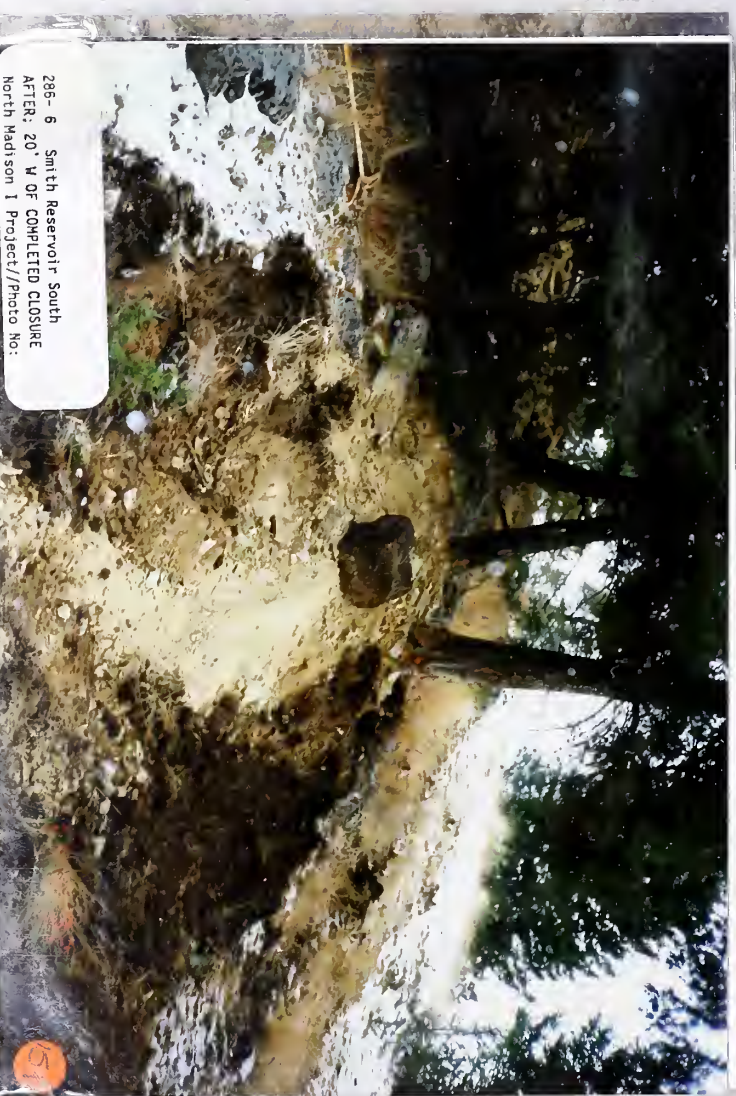
286- 5 Smith Reservoir South
AFTER: 25' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:



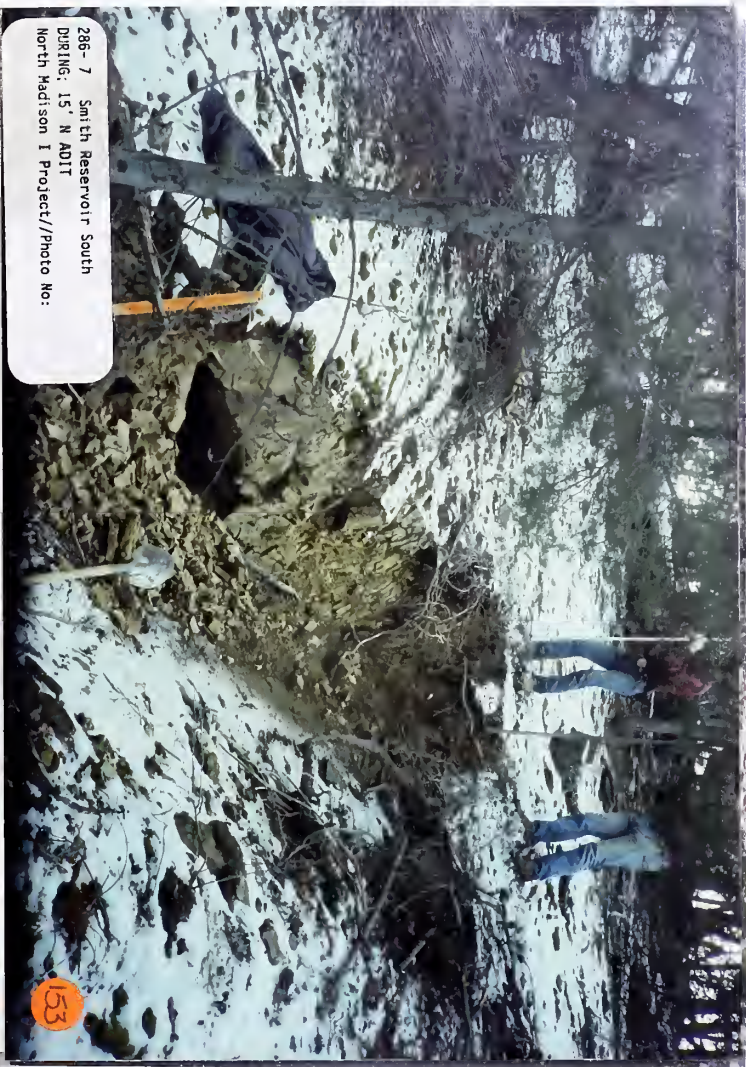
Northem Madison I/Tidal Wave
Smith Reservoir South/286-6
Before, 15' W of opening



Northem Madison I/Tidal Wave
Smith Reservoir South/286-7
Before, 10' west of opening



286- 6 Smith Reservoir South
AFTER: 20' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:



286- 7 Smith Reservoir South
DURING: 15' N ADIT
North Madison I Project//Photo No:

153



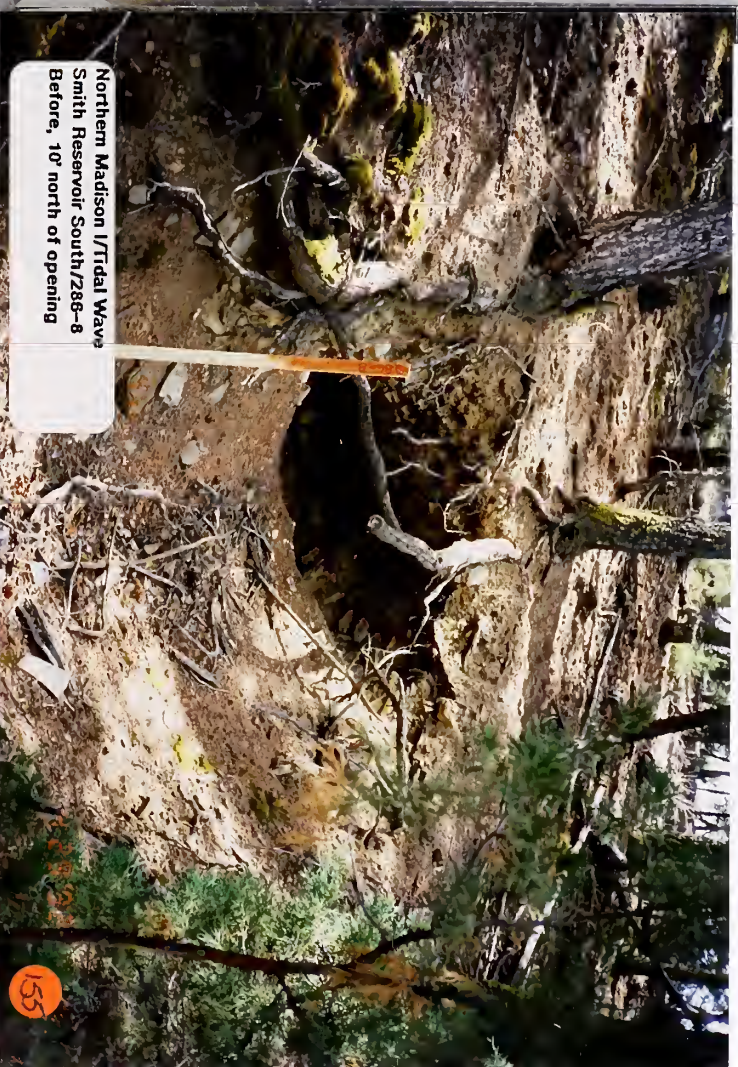
286- 7 Smith Reservoir South
AFTER: 15' N OF ADIT SEAL
North Madison I Project//Photo No:

154



286- 8 Smith Reservoir South
AFTER: 10' N OF SEAL
North Madison I Project//Photo No:

156



Northern Madison I/Tidal Wave
Smith Reservoir South/286-8
Before, 10' north of opening

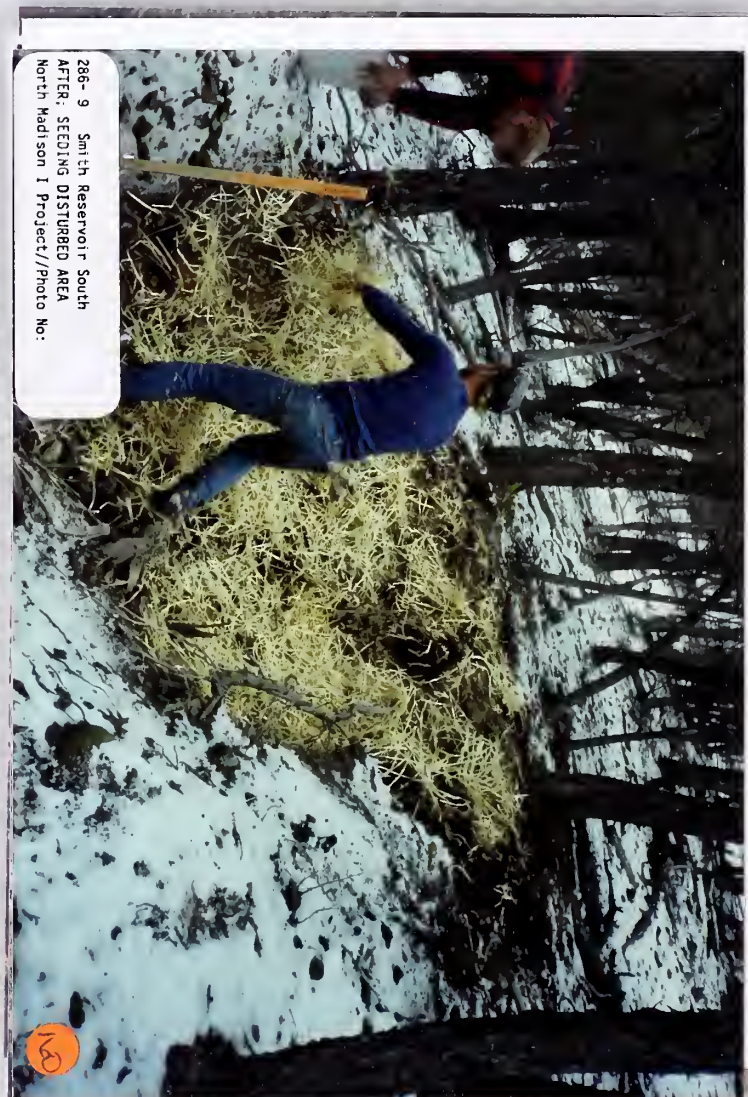
155



286- 8 Smith Reservoir South
AFTER: SEEDING DISTURBED AREA
North Madison I Project//Photo No:



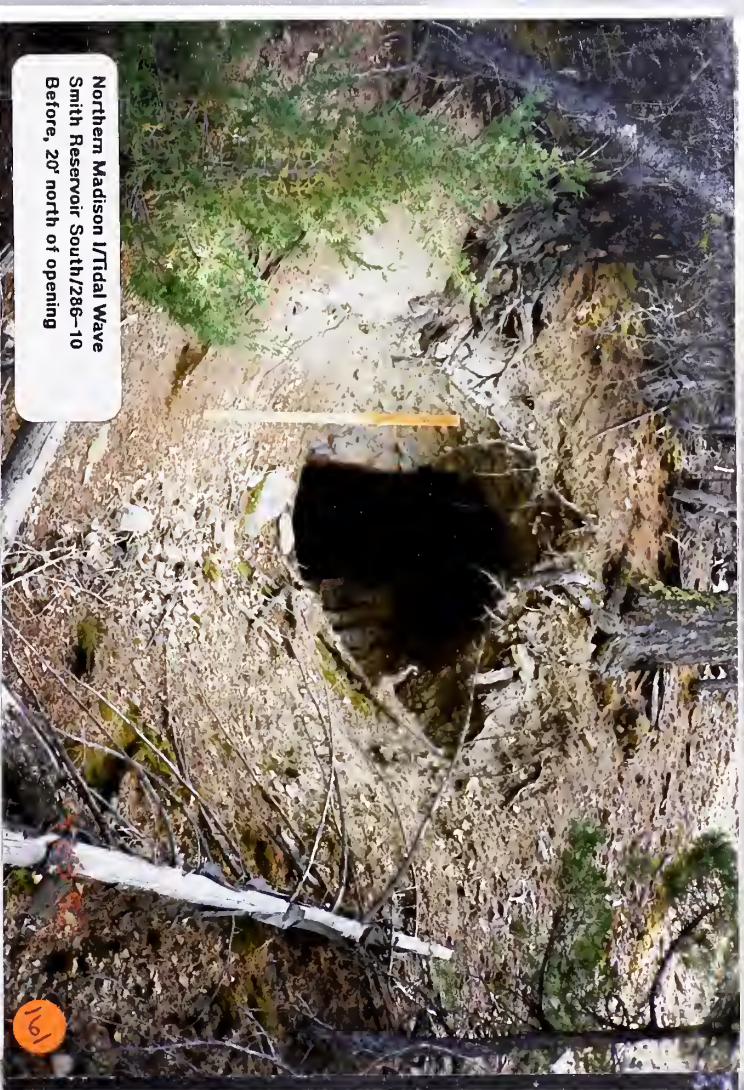
Northern Madison I/Tidal Wave
Smith Reservoir South/286-9
Before, 5' north of opening



286- 9 Smith Reservoir South
AFTER: SEEDING DISTURBED AREA
North Madison I Project//Photo No:



286- 9 Smith Reservoir South
AFTER: 15' N OF COMPLETED SEAL
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Smith Reservoir South/286-10
Before, 20' north of opening



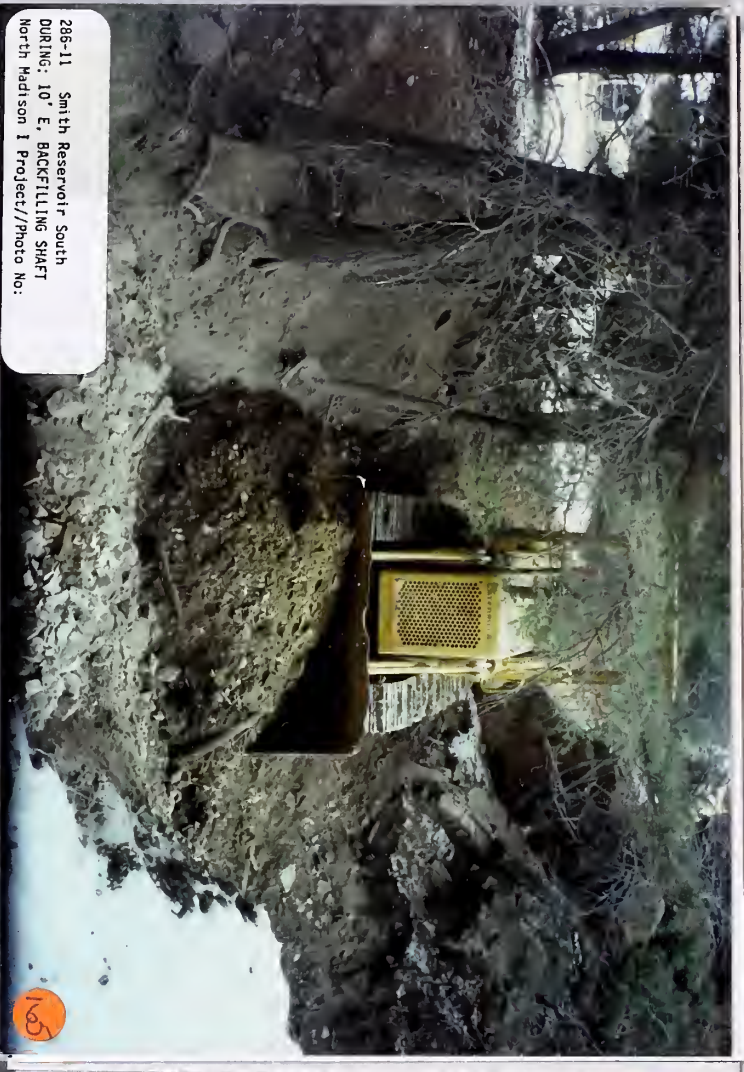
Northern Madison I/Tidal Wave
Smith Reservoir South/286-11
Before, 10' W of opening



286-10 Smith Reservoir South
DURING: 20' N OF ADIT, BACKFILLING
North Madison I Project//Photo No:



286-10 Smith Reservoir South
AFTER: 30' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:



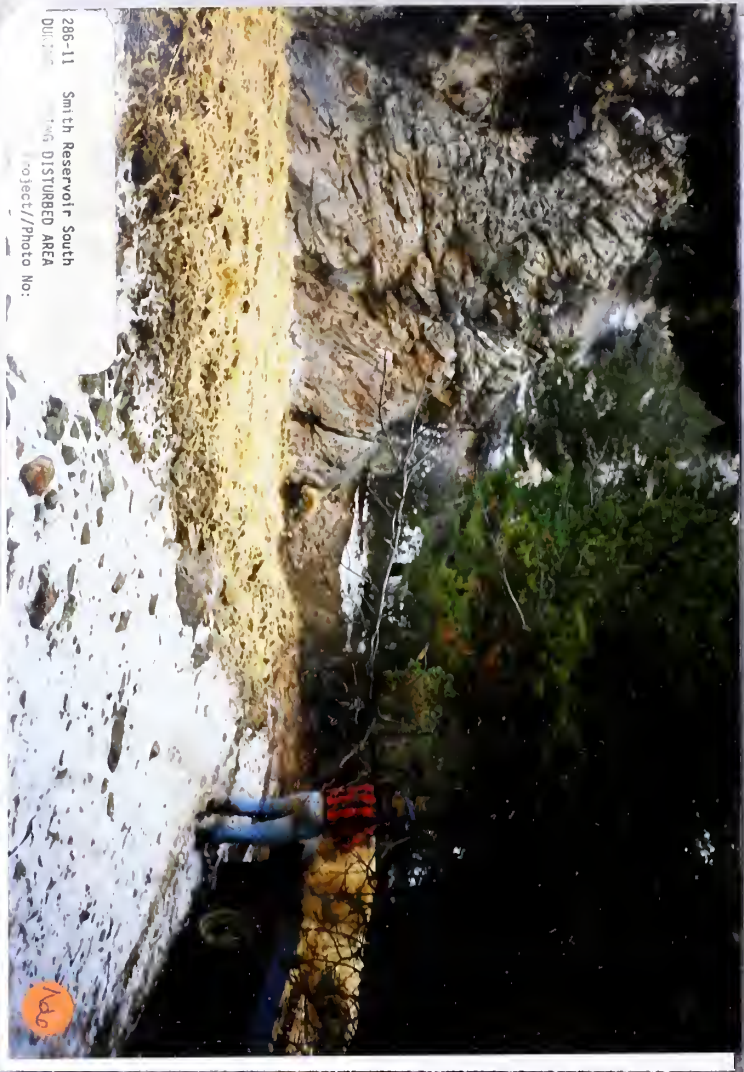
286-11 Smith Reservoir South
DURING: 10' E. BACKFILLING SHAFT
North Madison I Project//Photo No:

145



N. Madison/Tidal wave
Tidal wave 287-1
Before 10' N of crest

146



286-11 Smith Reservoir South
DURING: 10' E. BACKFILLING SHAFT
North Madison I Project//Photo No:

146



286-11 Smith Reservoir South
AFTER: 20' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:

147

287- 1 Tidal Wave
DURING: 30' N OF ADIT
North Madison I Project//Photo No:



179

287- 2 Tidal Wave
DURING: 30' W OF ADIT. SEALING
North Madison I Project//Photo No:



178

287- 1 Tidal Wave
AFTER: 40' N OF ADIT
North Madison I Project//Photo No:



170

Northern Madison I/Tidal Wave
Tidal Wave/287-#2
Before - S' east of opening



171



287- 2 Tidal Wave
AFTER: 20' W OF SEALED ADIT
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Tidal Wave/287-3
Before - 10' south of opening



Northern Madison I/Tidal Wave
Tidal Wave/287-4
Before - 10' south of opening



287- 3 Tidal Wave
AFTER: 10' S OF ADIT
North Madison I Project//Photo No:
North Madison I Project//Photo No:



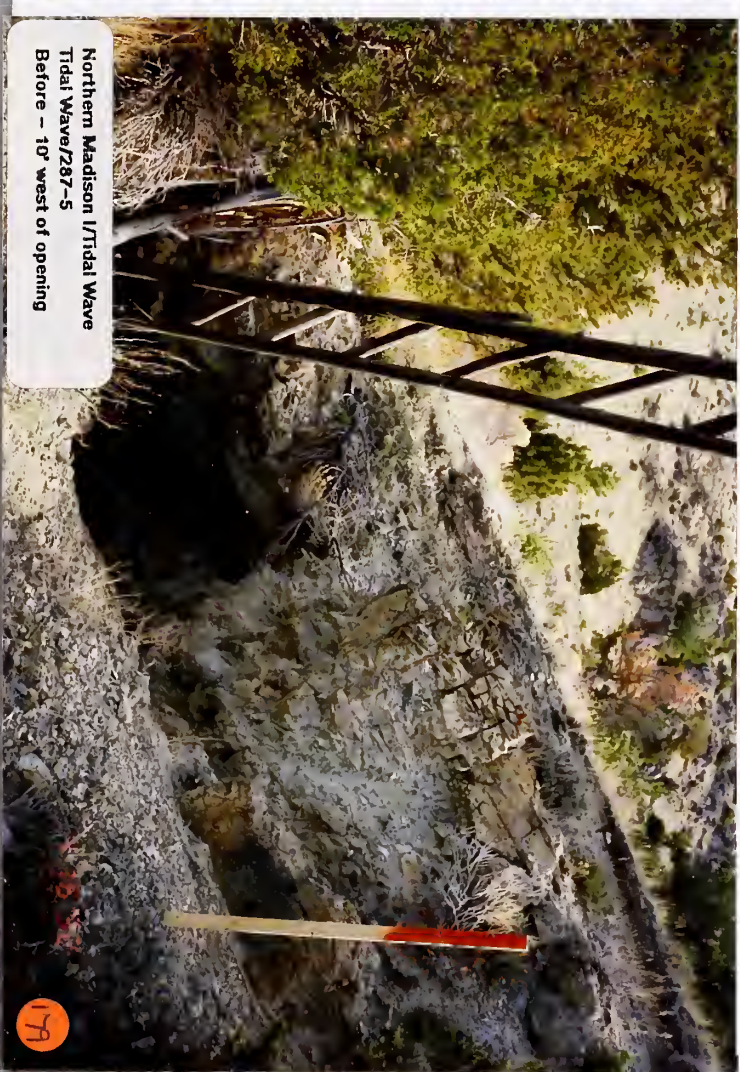
287- 4 Tidal Wave
DURING: 5' E OF CULVERT
North Madison 1 Project/Photo No:



287- 4 Tidal Wave
AFTER: 15' S OF INSTALLED
CULVERT
North Madison 1 Project/Photo No:



287- 5 Tidal Wave
DURING: 15' N OF SHAFT. INSTALLING GRATE
North Madison 1 Project/Photo No:



Northern Madison 1/Tidal Wave
Tidal Wave/287-5
Before - 10' west of opening



287- 5 Tidal Wave
DURING: 15' E OF SHAFT
North Madison I Project//Photo No:



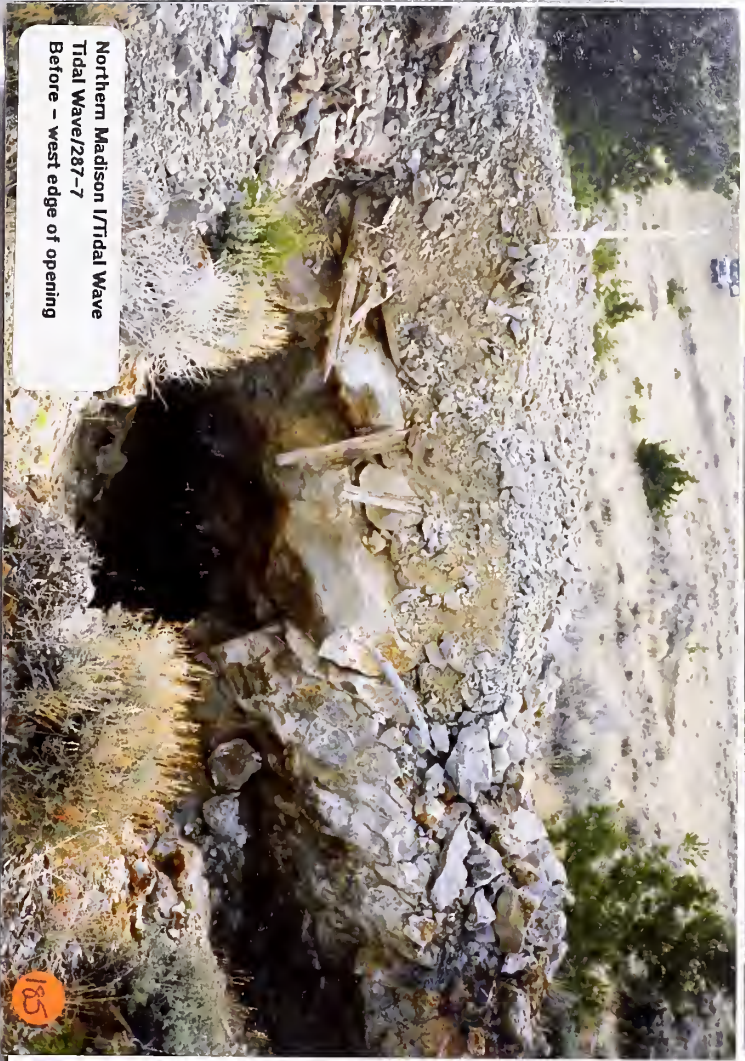
287- 6 Tidal Wave
AFTER: 15' E OF SHAFT
North Madison I Project//Photo No:



287- 6 Tidal Wave
AFTER: 30' N OF COMPLETED CLDSURE
North Madison I Project//Photo No:

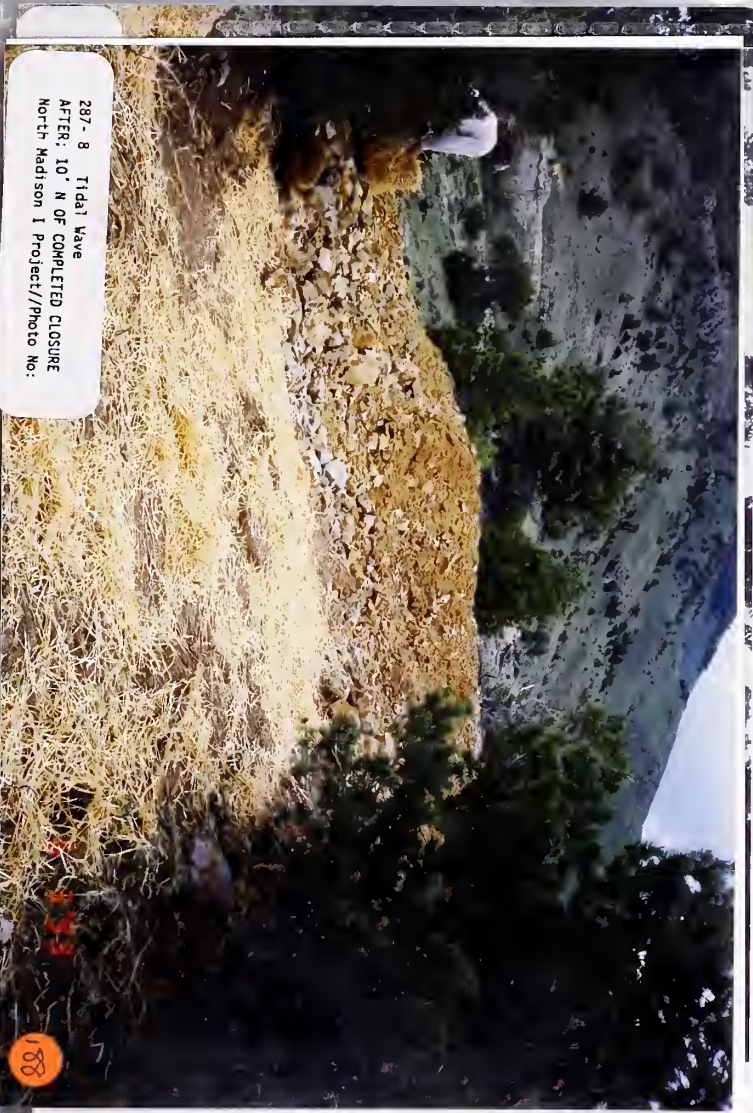


North Madison I/Tidal Wave
Tidal Wave/287-8
Before - 10' east of opening



Northern Madison I/Tidal Wave
Tidal Wave/287-7
Before - west edge of opening

185



287-8 Tidal Wave
AFTER: 10' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:

188



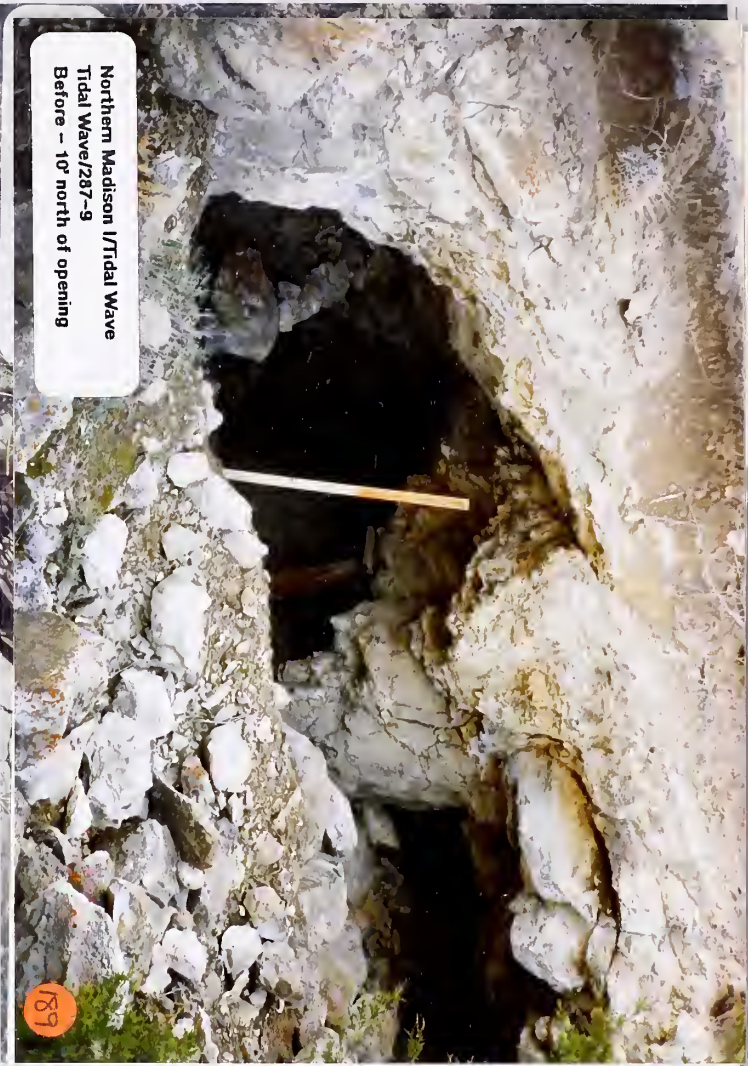
287-7 Tidal Wave
AFTER: 10' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:

186



Northern Madison I/Tidal Wave
Tidal Wave/287-8
Before - 5' south of opening

187



Northern Madison I/Tidal Wave
Tidal Wave/287-9
Before - 10' north of opening



287- Tidal Wave
AFTER, 10' N OF COMPLETED SEAL
North Madis Project//Photo No:



287-10 Tidal Wave
AFTER, 10' N OF ADIT SEAL
North Madison I Project//Photo No:



thern Madison I/Tidal Wave
Tidal Wave/287-10
Before - 5' north of opening



Northern Madison I/Tidal Wave
Tidal Wave/287-11
Before - 5' west of opening

North Madison I Project//Photo No:

193



287-11 Tidal Wave
AFTER: 50' N OF 11, 12, & 13
North Madison I Project//Photo No:

196



287-11 Tidal Wave
DURING: 70' N OF ADIT, CLEARING ADIT
North Madison I Project//Photo No:

194



Northern Madison I/Tidal Wave
Tidal Wave/287-12 & 13
Before - 15' north of opening

195



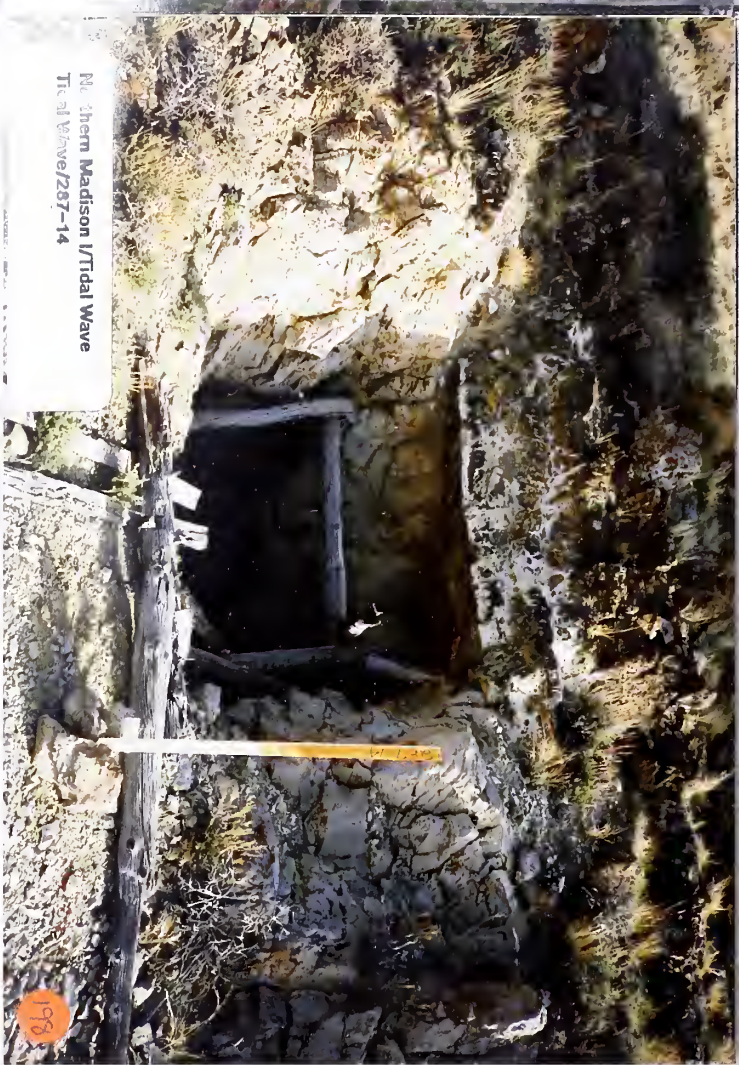
287-11 Tidal Wave
After: 100' N of 11, 12 & 13
North Madison I Project/Photo No:

1987



Northern Madison I/Tidal Wave
Tidal Wave/287-15
Before - 5' north of opening

1987



Northern Madison I/Tidal Wave
Tidal Wave/287-14

1987



287-14 Tidal Wave
Complete cable net, 10' S
North Madison I Project/Photo No:

1987



287-15 Tidal Wave
DURING, 30' E OF SHAFT, BACKFILLING
North Madison I Project//Photo No:



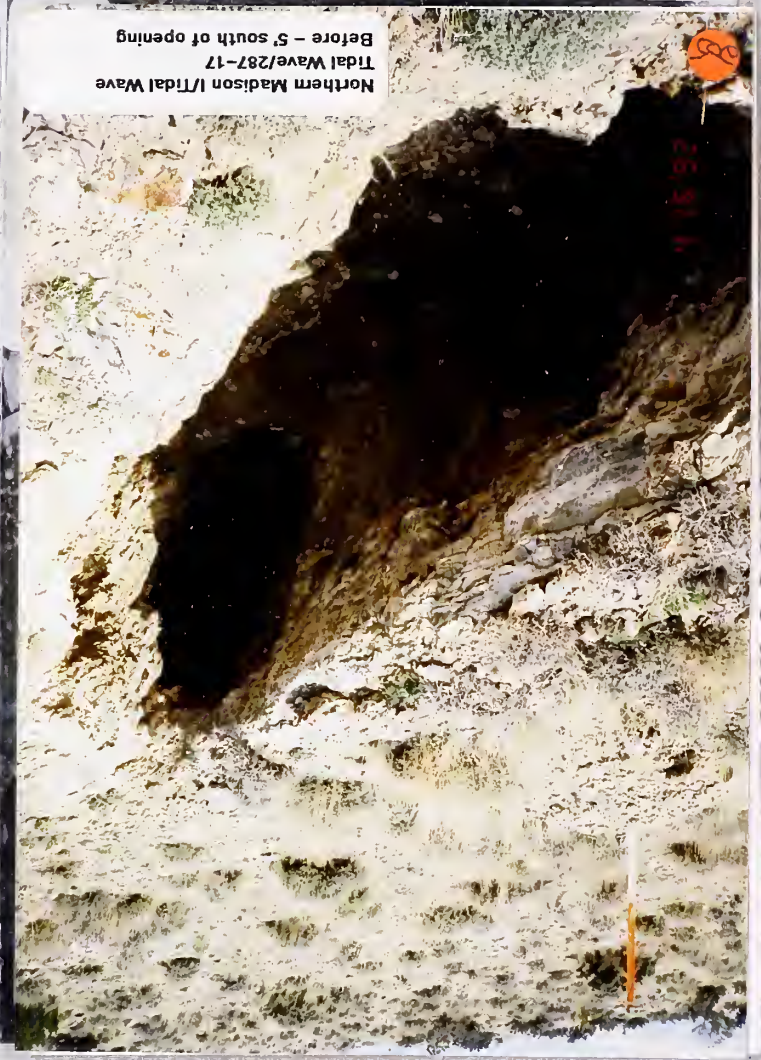
287-15 Tidal Wave
AFTER, 30' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:



287-16 Tidal Wave
AFTER, 50' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:



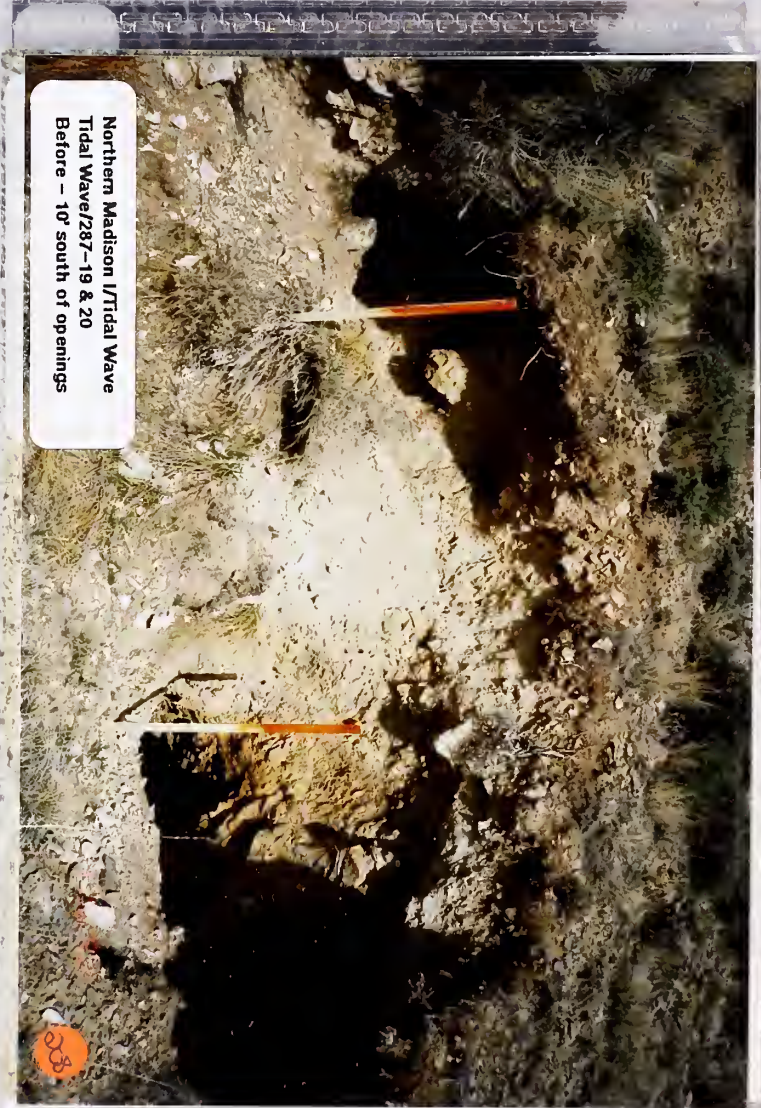
Northern Madison I/Tidal Wave
Tidal Wave/287-16
Before - 5' south of opening



Northern Madison I/Tidal Wave
Tidal Wave/287-17
Before - 5' south of opening



Northern Madison I/Tidal Wave
Tidal Wave/287-18
Before - 0' west of opening



Northern Madison I/Tidal Wave
Tidal Wave/287-19 & 20
Before - 10' south of openings



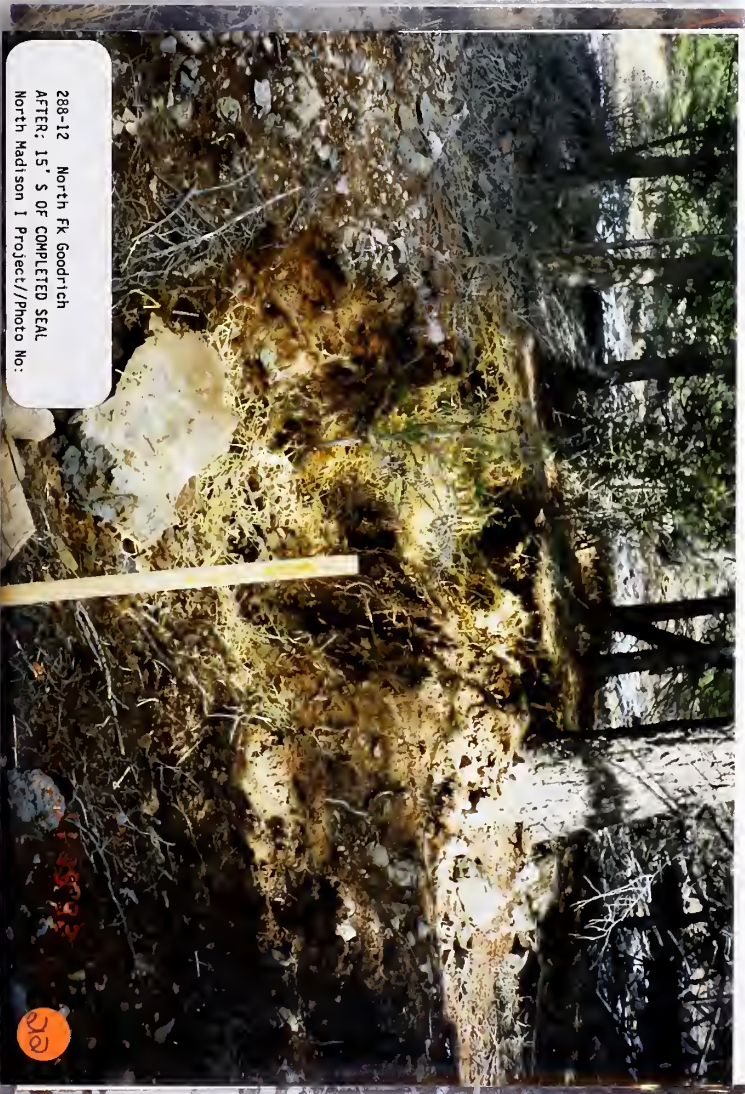
287-17 Tidal Wave
AFTER: 50' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:



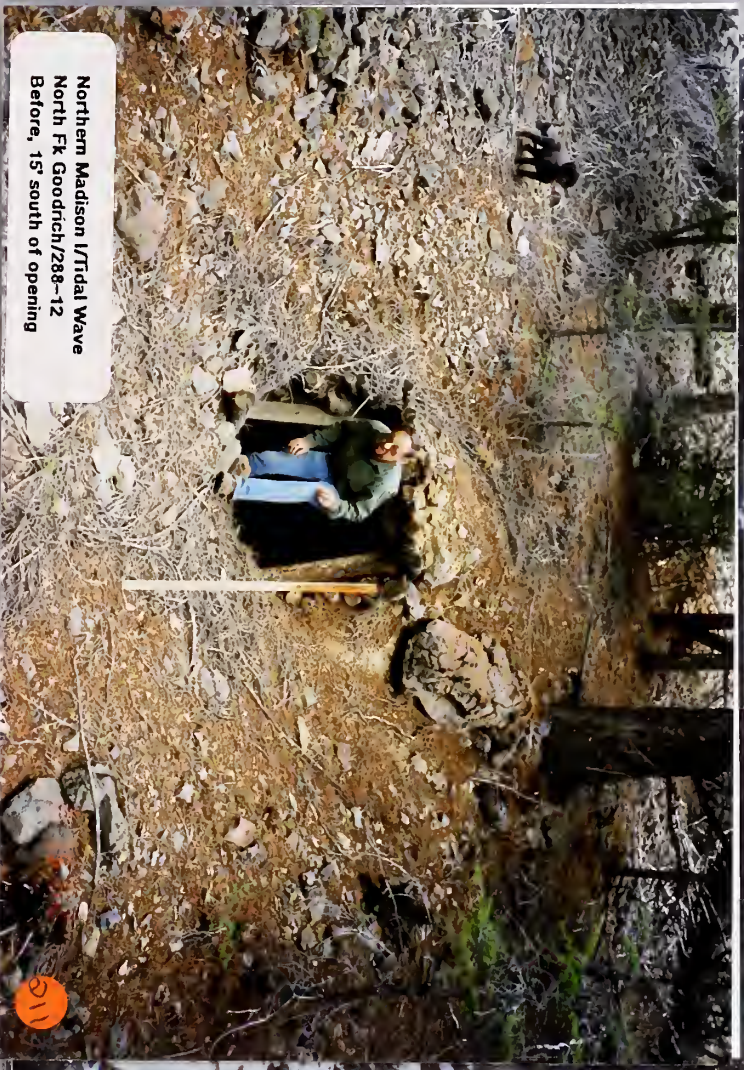
20
Northern Madison I/Tidal Wave
Before - edge of #21
Tidal Wave/287-21 & 22



21
2012 1+22
287-19, Tidal Wave
AFTER: 30' W OF SEAL
North Madison I Project//Photo No:



22
288-12 North Fk Goodrich
AFTER: 15' S OF COMPLETED SEAL
North Madison I Project//Photo No:



23
Northern Madison I/Tidal Wave
North Fk Goodrich/288-12
Before, 15' south of opening

Northern Madison I/Tidal Wave
North Fk Goodrich/288-13
Before, 10' south of opening



288-13 North Fk Goodrich
Before, 10' S OF COMPLETED SEAL

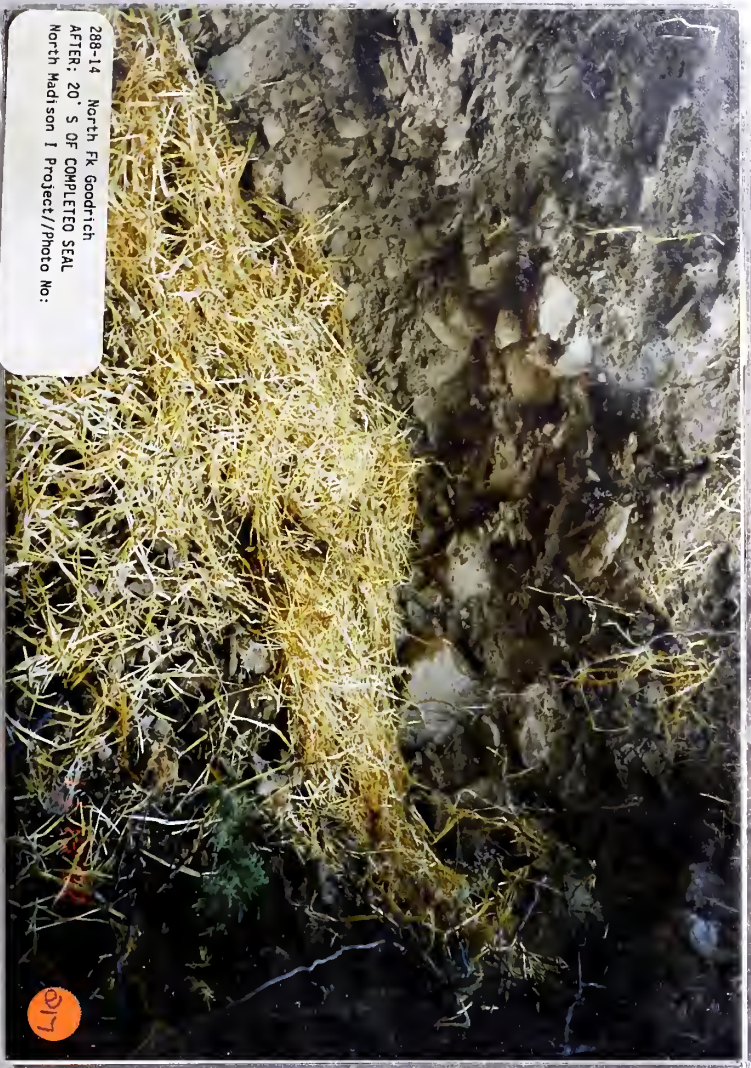


288-14 North Fk Goodrich
DURING: 20' S OF ADIT
North Madison I Project//photo No:



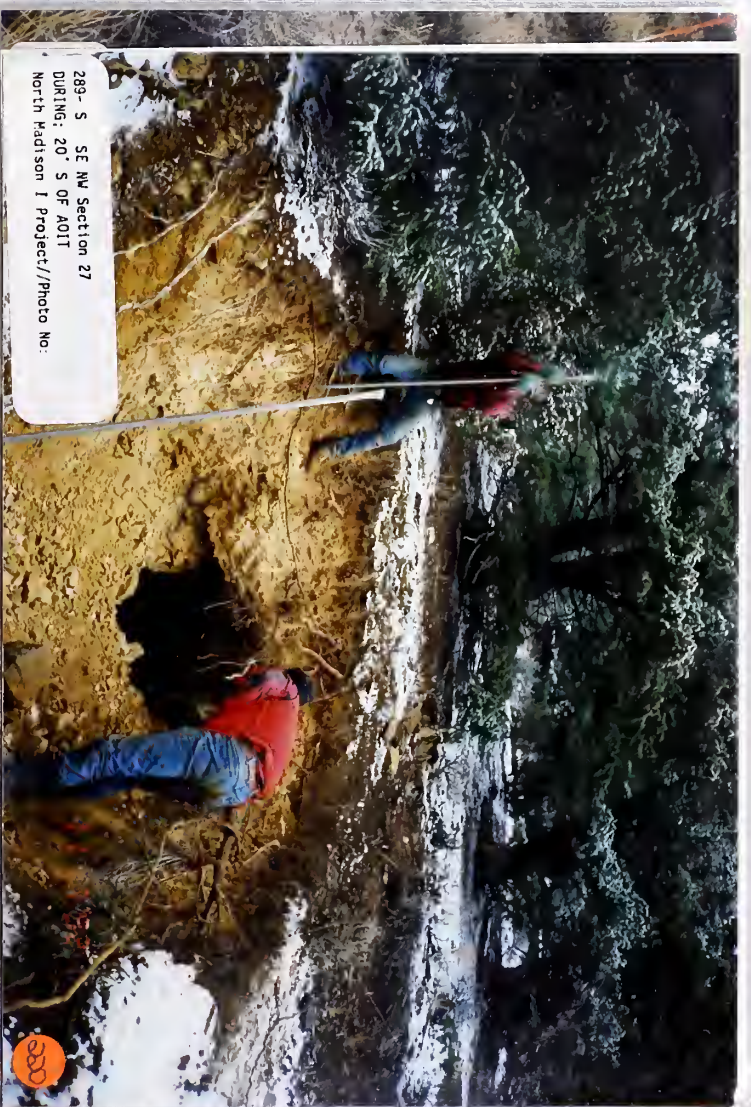
Northern Madison I/Tidal Wave
North Fk Goodrich/288-14
Before, 20' south of opening





288-14 North Fk Goodrich
AFTER: 20' S OF COMPLETED SEAL
North Madison I Project//Photo No:

288



289-5 SE NW Section 27
DURING: 20' S OF A011
North Madison I Project//Photo No:

289



289-3 SE NW Section 27
AFTER: 15' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:

289



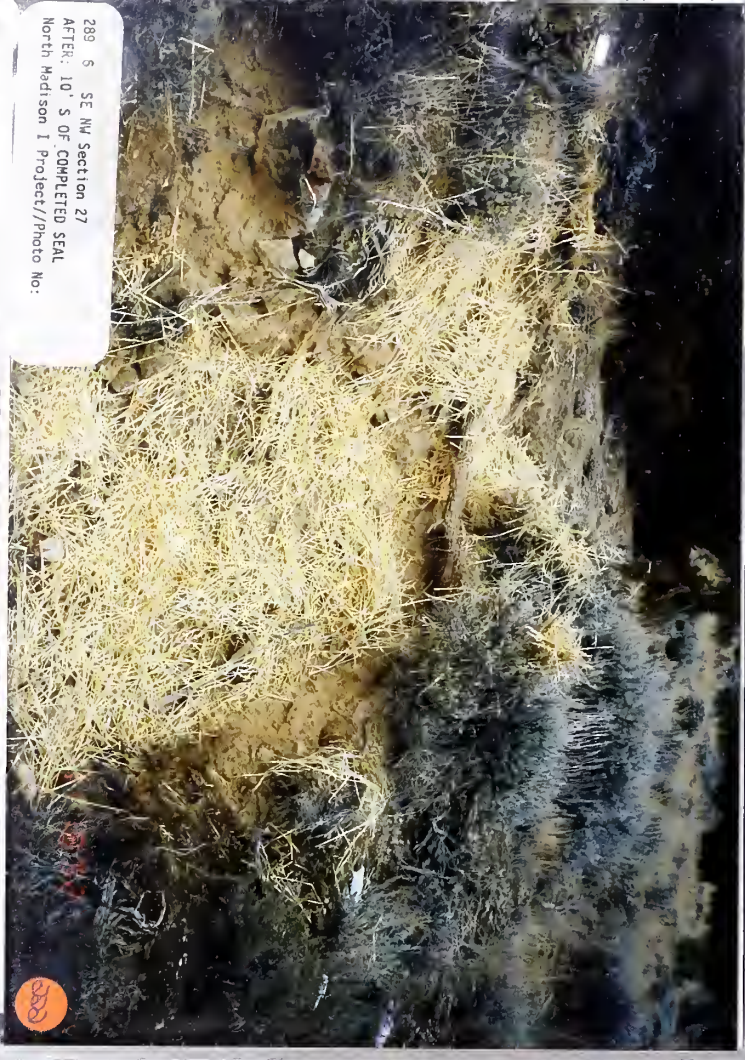
289-4 SE NW Section 27
AFTER: 15' S OF A011 SEAL
North Madison I Project//Photo No:

289



289- 5 SE NW Section 27
AFTER: 15' S OF A01T
North Madison I Project//Photo No:

289-5



289- 5 SE NW Section 27
AFTER: 10' S OF COMPLETED SEAL
North Madison I Project//Photo No:

289-5



289- 1 Deutschland
AFTER: 10' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:

289-1



Northern Madison I/Tidal Wave
Deutschland/292-1
Before, 5' south of opening

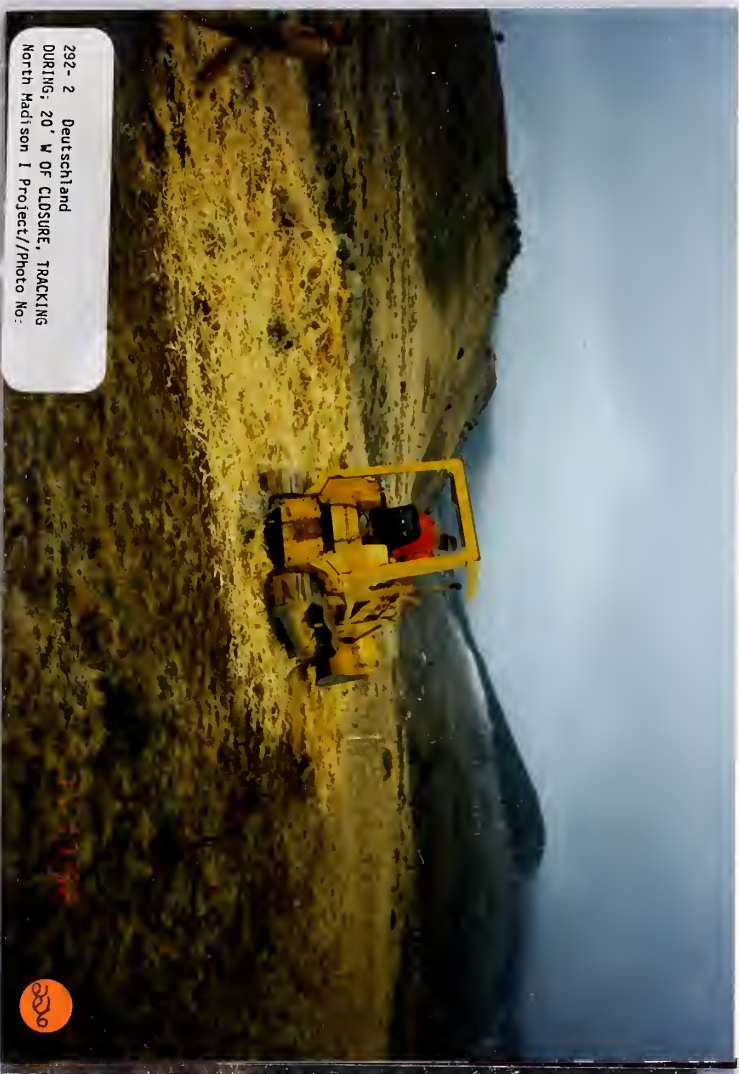
292-1



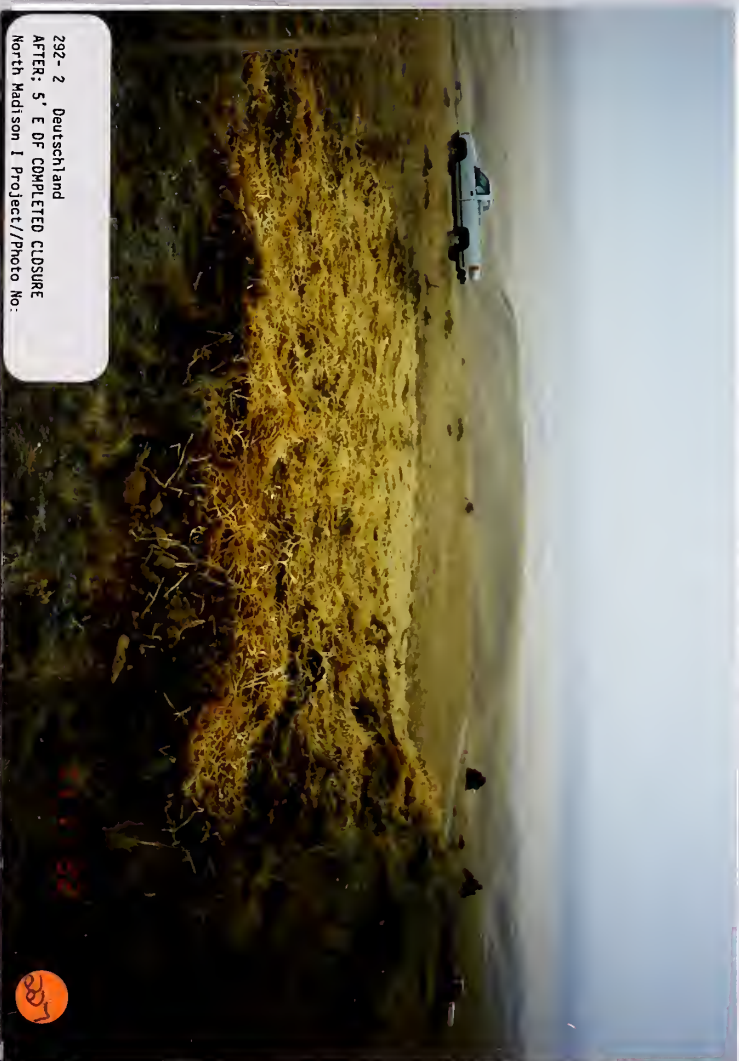
Northern Madison I/Tidal Wave
Deutschland/292-2
Before, 5' east of opening



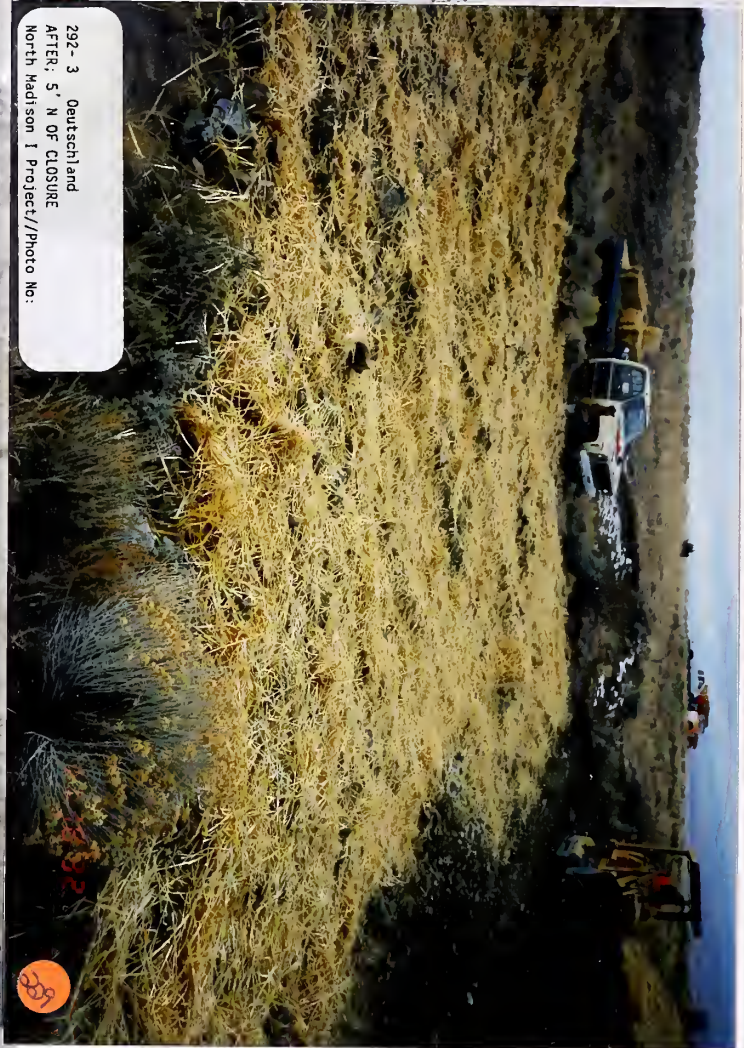
Northern Madison I/Tidal Wave
Deutschland/292-3
Before, 5' north of opening



292-2 Deutschland
During, 20' W OF CLOSURE, TRACKING
North Madison I Project//Photo No.



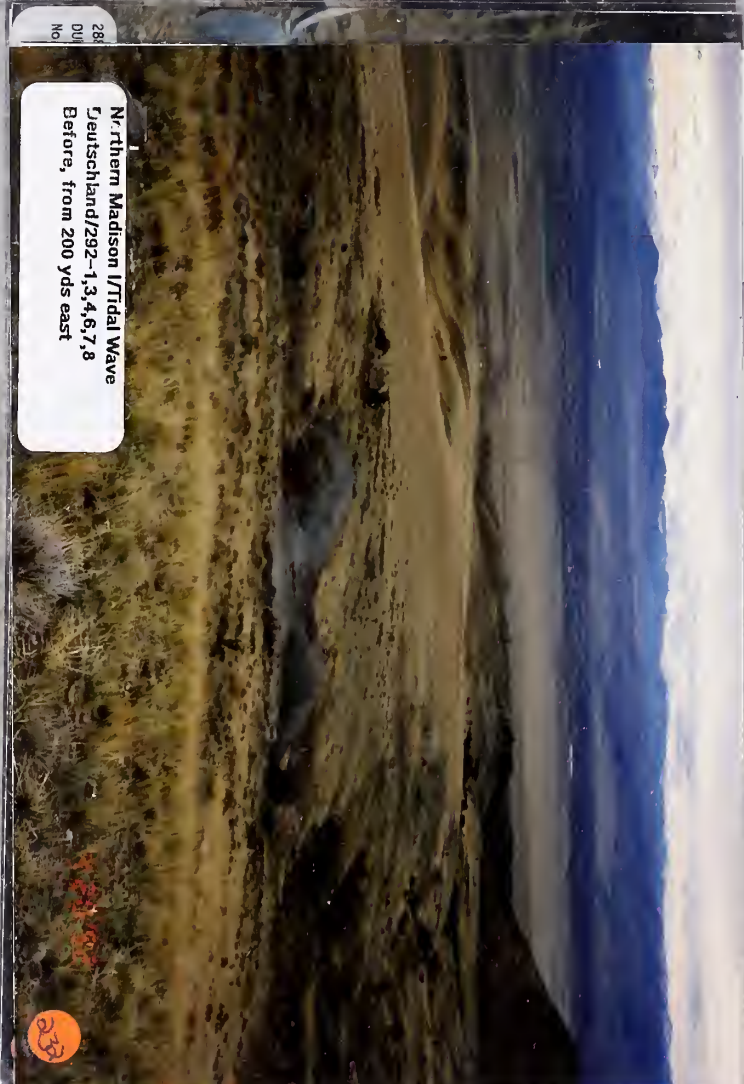
292-2 Deutschland
After, 5' E OF COMPLETED CLOSURE
North Madison I Project//Photo No.



292-3 Deutschland
AFTER: 5' N OF CLOSURE
North Madison I Project//Photo No:



292-4 Deutschland
AFTER: 5' N OF CLOSURE
North Madison I Project//Photo No:



292-3 Deutschland
AFTER: 5' N OF CLOSURE
North Madison I Project//Photo No:

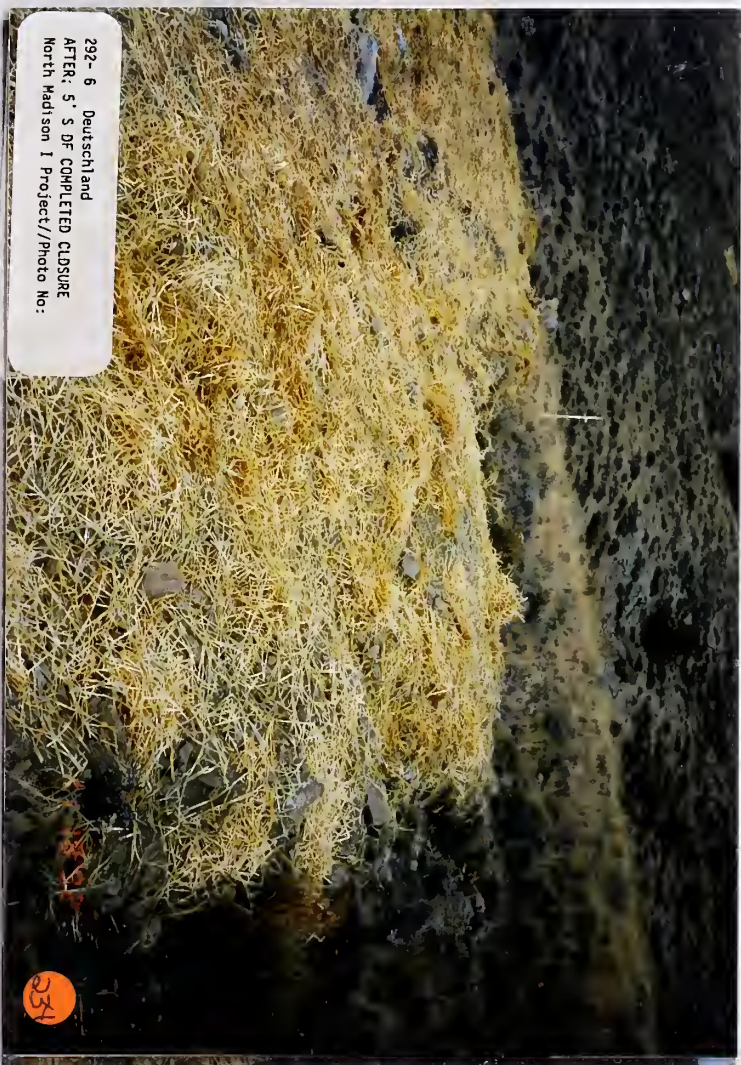


292-4 Deutschland
AFTER: 10' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Deutschland/292-6
Before, 5' south of opening

292-6



292-6 Deutschland
After, 5' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:

292-6



292-7 Deutschland
After, 5' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:

292-7



Northern Madison I/Tidal Wave
Deutschland/292-7
Before, 5' north of opening

292-7

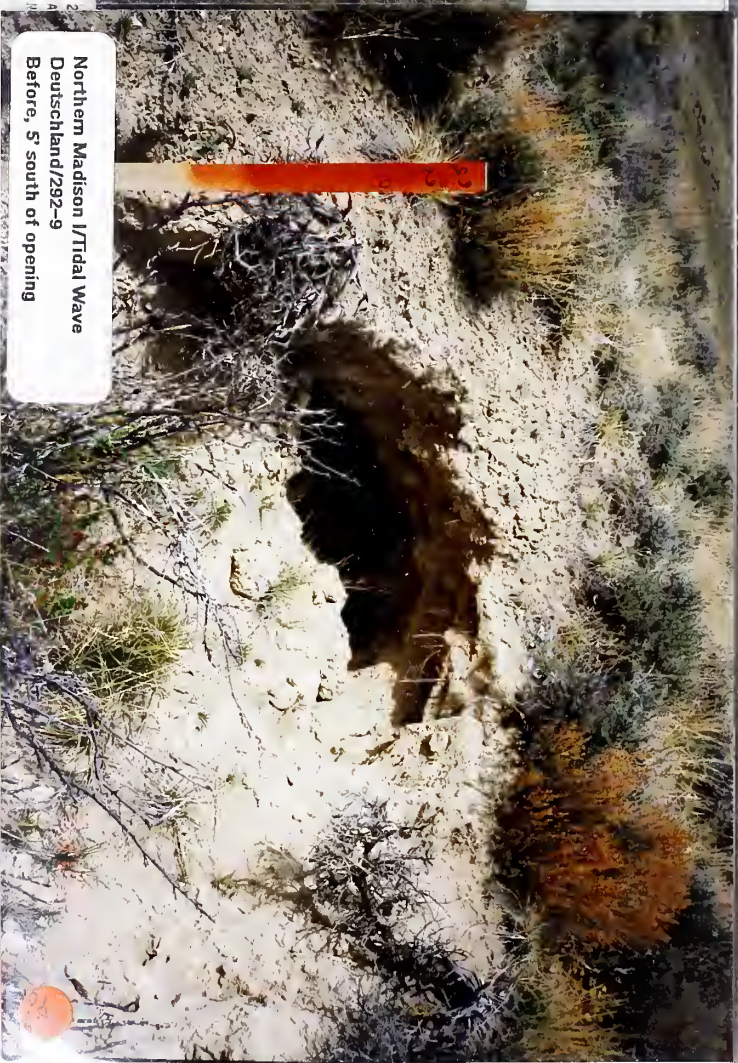
292- 8 Deutschland
AFTER: 20' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Deutschland/292-8
Before, 20' north of opening



Northern Madison I/Tidal Wave
Deutschland/292-9
Before, 5' south of opening



292- 9 Deutschland
AFTER: 5' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:

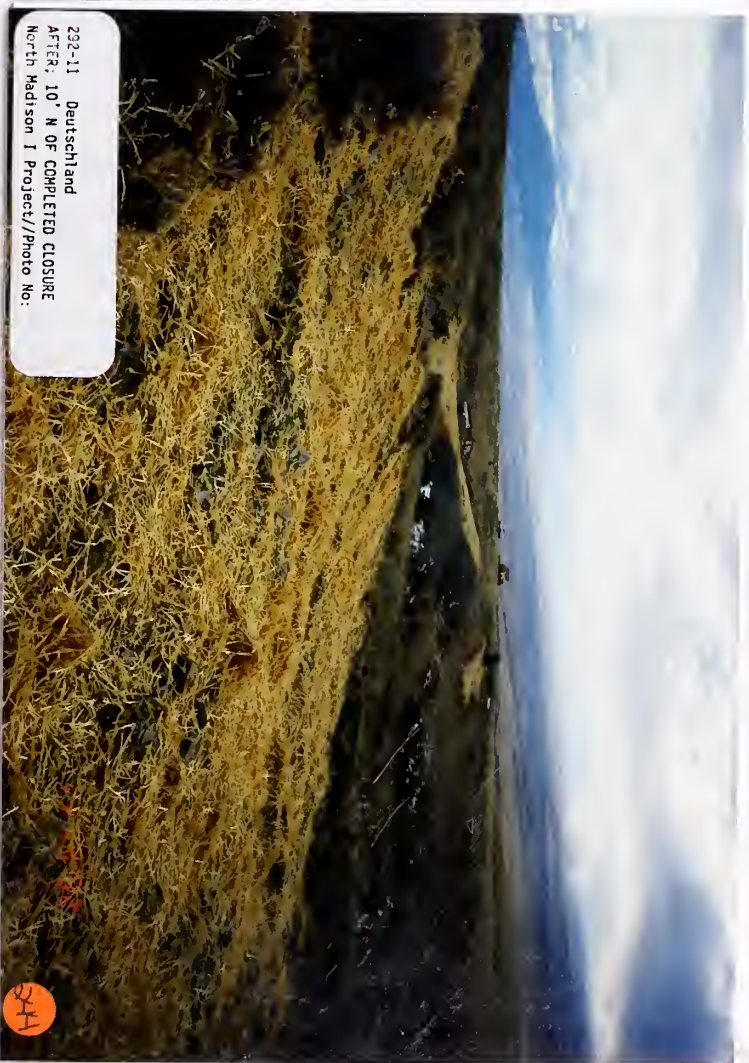




Northern Madison I/Tidal Wave
Deutschland/292-10
Before, 10' southwest of opening



292-10 Deutschland
AFTER, 10' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:



292-11 Deutschland
AFTER, 10' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Deutschland/292-11
Before, 10' north of opening



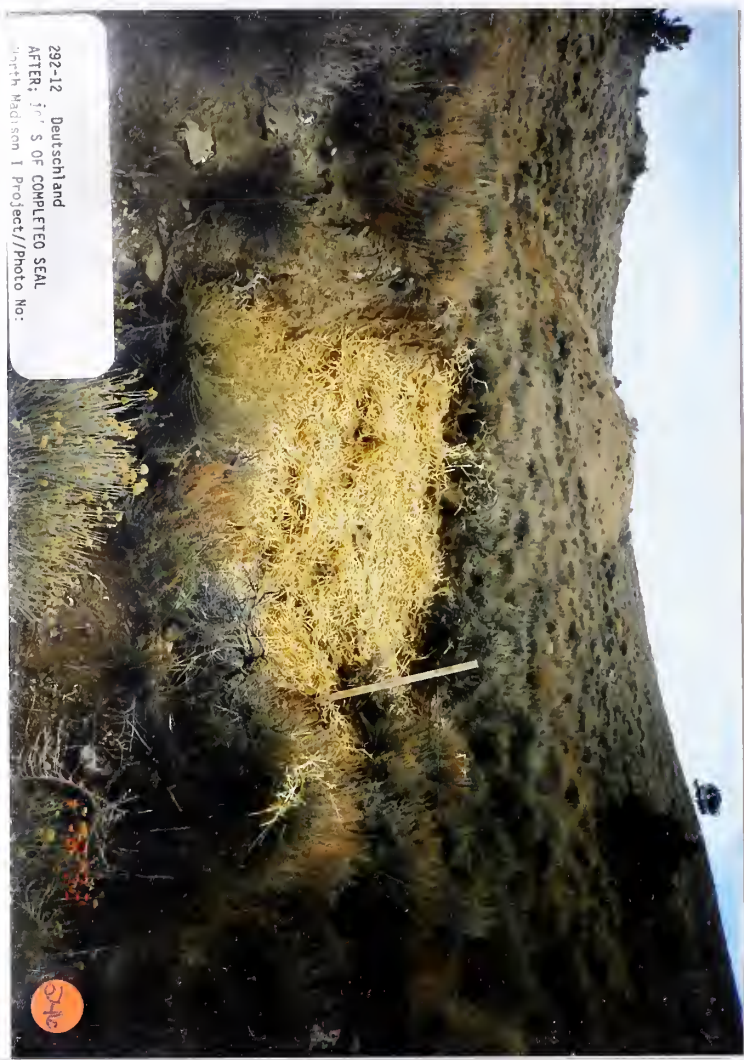
Northern Madison I/Tidal Wave
Deutschland/292-12
Before, 10' south of opening

292



292-13 Deutschland
AFTER: 10' S OF COMPLETED SEAL
North Madison I Project//Photo No:

292



292-12 Deutschland
AFTER: 10' S OF COMPLETED SEAL
North Madison I Project//Photo No:

292



Northern Madison I/Tidal Wave
Deutschland/292-13
Before, 10' south of opening

292



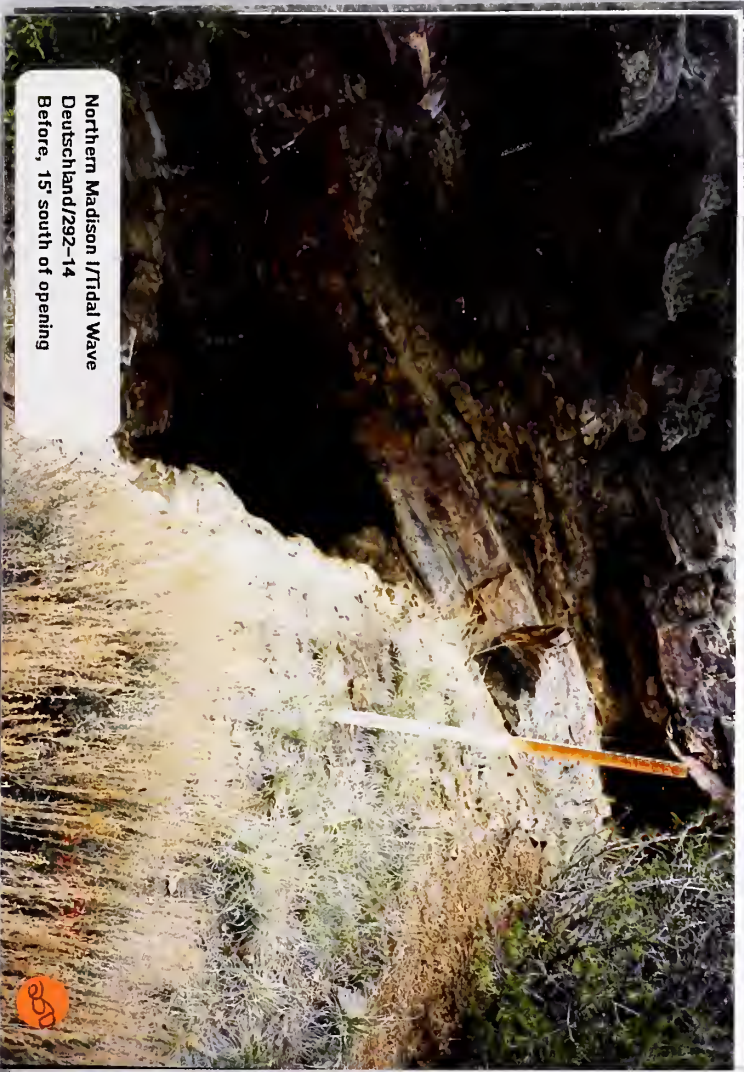
Northern Madison I/Tidal Wave
Deutschland/292-11 thru 14
Before, from #11 looking north

292



Northern Madison I/Tidal Wave
Deutschland/292-16
Before, 20' south of opening

293



Northern Madison I/Tidal Wave
Deutschland/292-14
Before, 15' south of opening

294



292-14 Deutschland
AFTER: 15' S OF COMPLETED CLOSURE
North Madison I Project//Photo No.

295



2-16 Deutschland
AFTER: 20' S OF COMPLETED SEAL
North Madison 1 Project//Photo No:

203



North Madison I/Tidal Wave
Deutschland/292-17
Before, 15' south of opening

204



North Madison I/Tidal Wave
Deutschland/292-18
Before, 10' south of opening

205



2-17 Deutschland
AFTER: 15' S OF COMPLETED CLOSURE
North Madison 1 Project//Photo No:

206



292-18 Deutschland
 AFTER: 10' S OF COMPLETED CLOSURE
 North Madison I Project//Photo No:



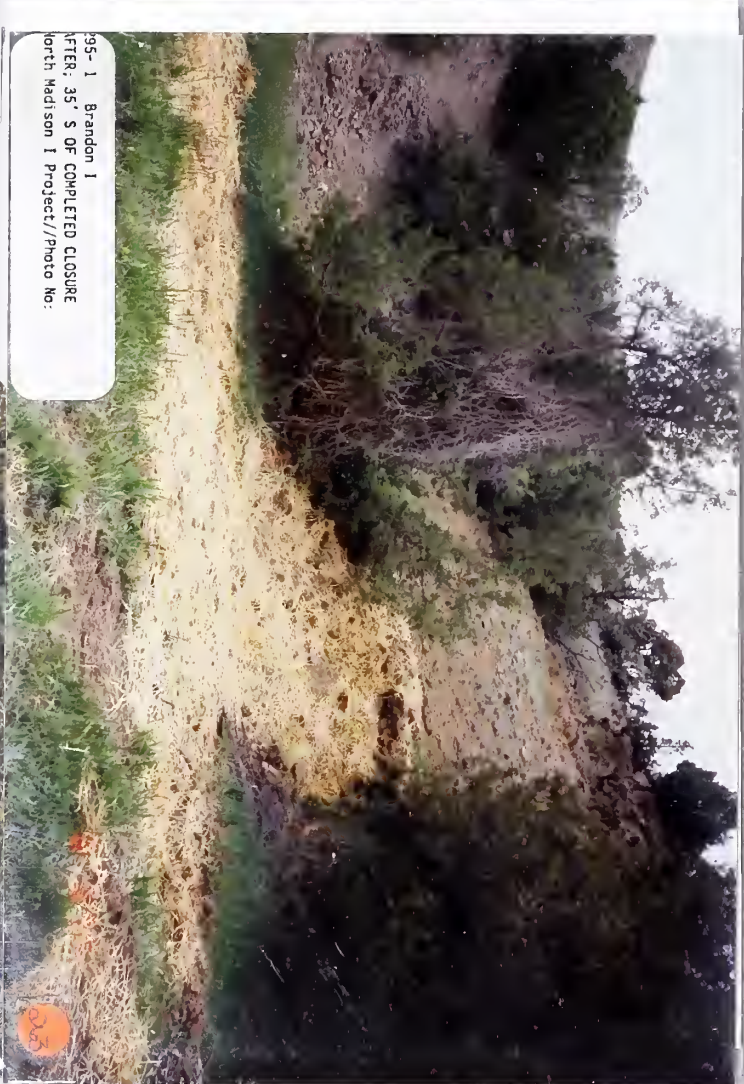
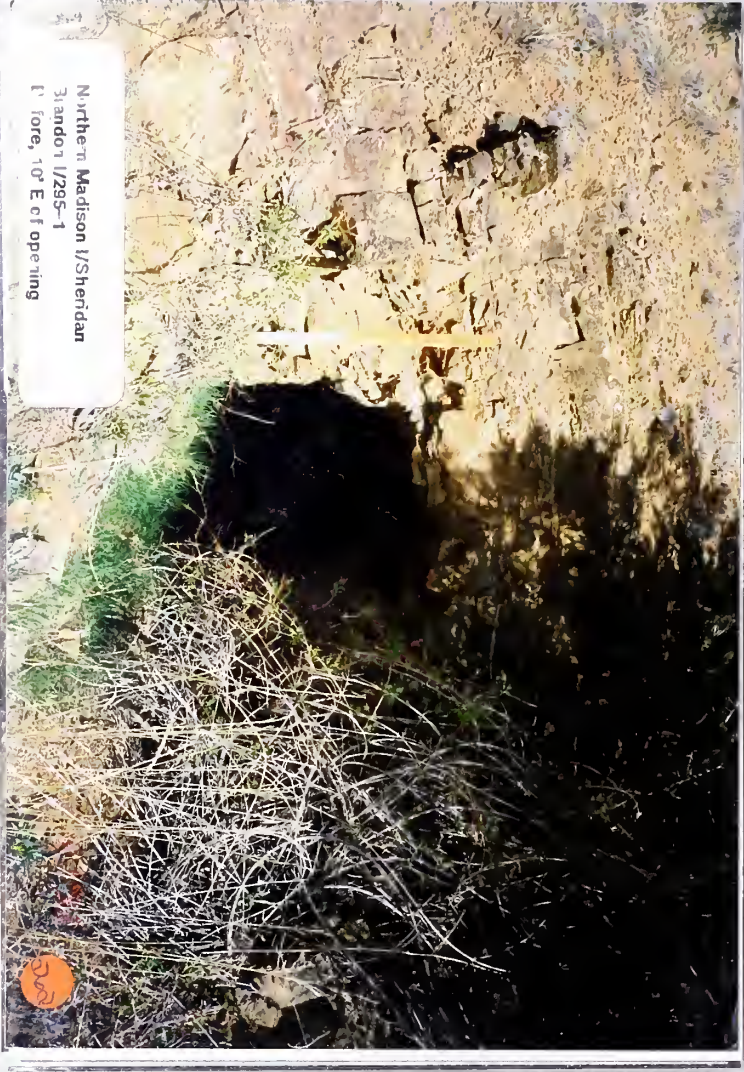
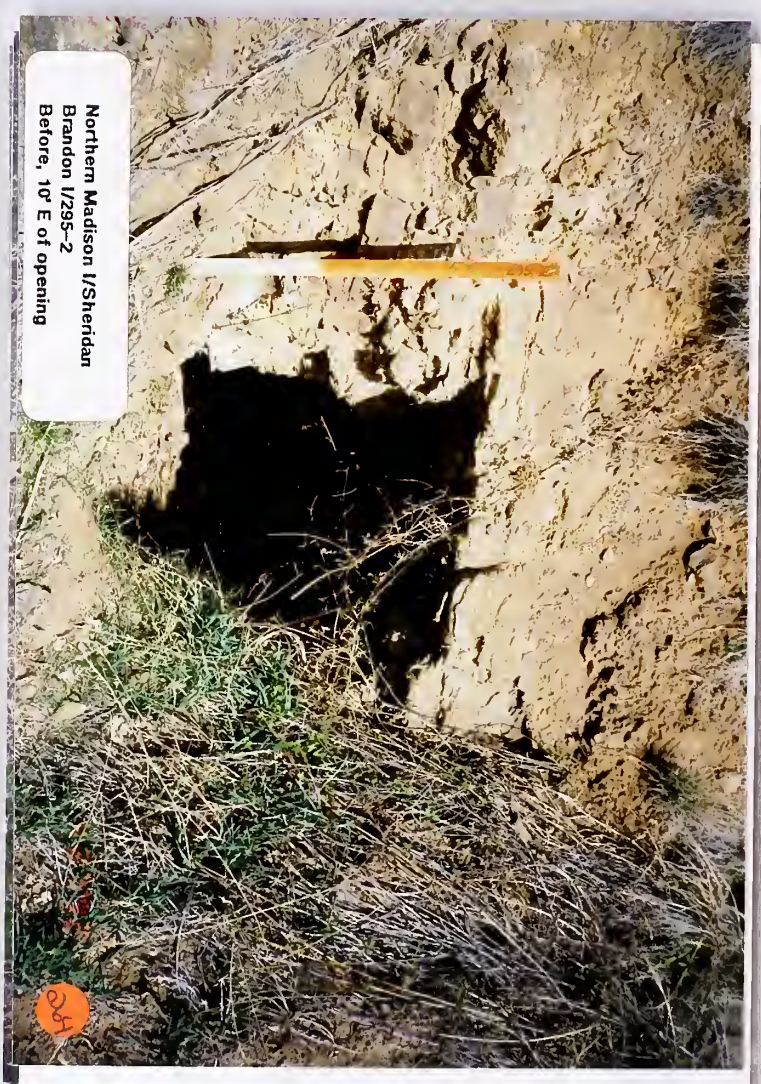
Northern Madison I/Tidal Wave
 Deutschland/292-20
 Before, 5' east of opening

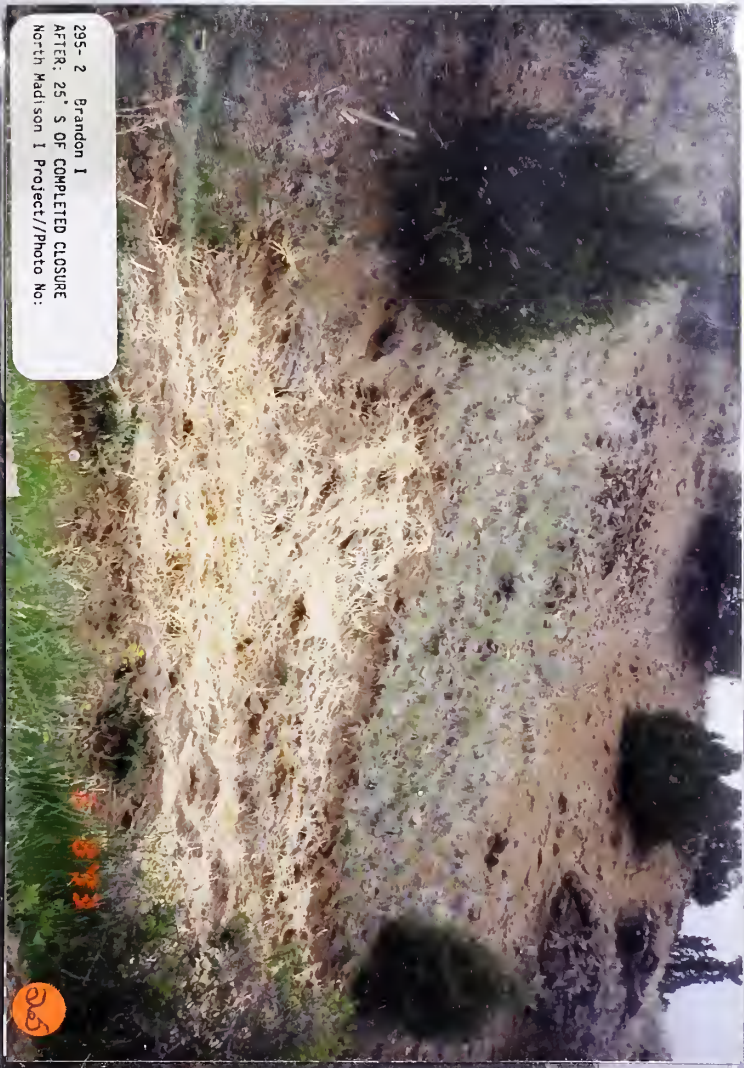


Northern Madison I/Tidal Wave
 Deutschland/292-19
 Before, 10' south of opening



292-19 Deutschland
 AFTER: 10' S OF COMPLETED CLOSURE
 North Madison I Project//Photo No:





295-2 Brandon I
After: 25' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:



HMO Project - North Madison
Sheridan/Standard Ruby 298-1
Shaft, 20' E. of opening



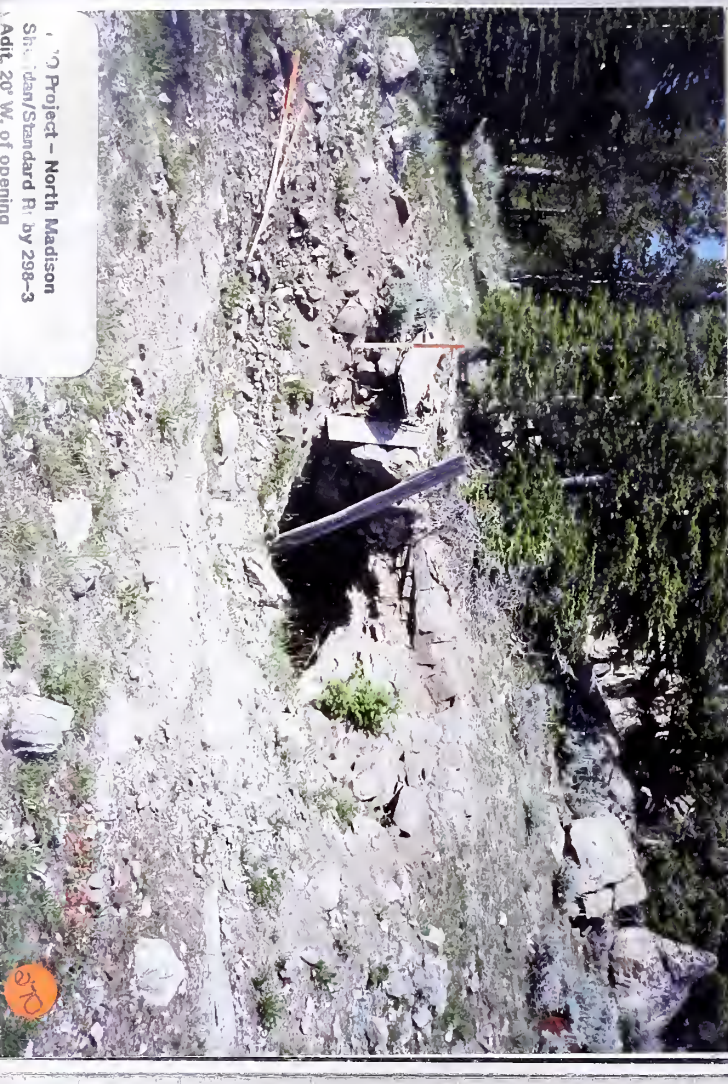
HMO Project - North Madison
Sheridan/Standard Ruby 298-2
Shaft, 20' N. of opening



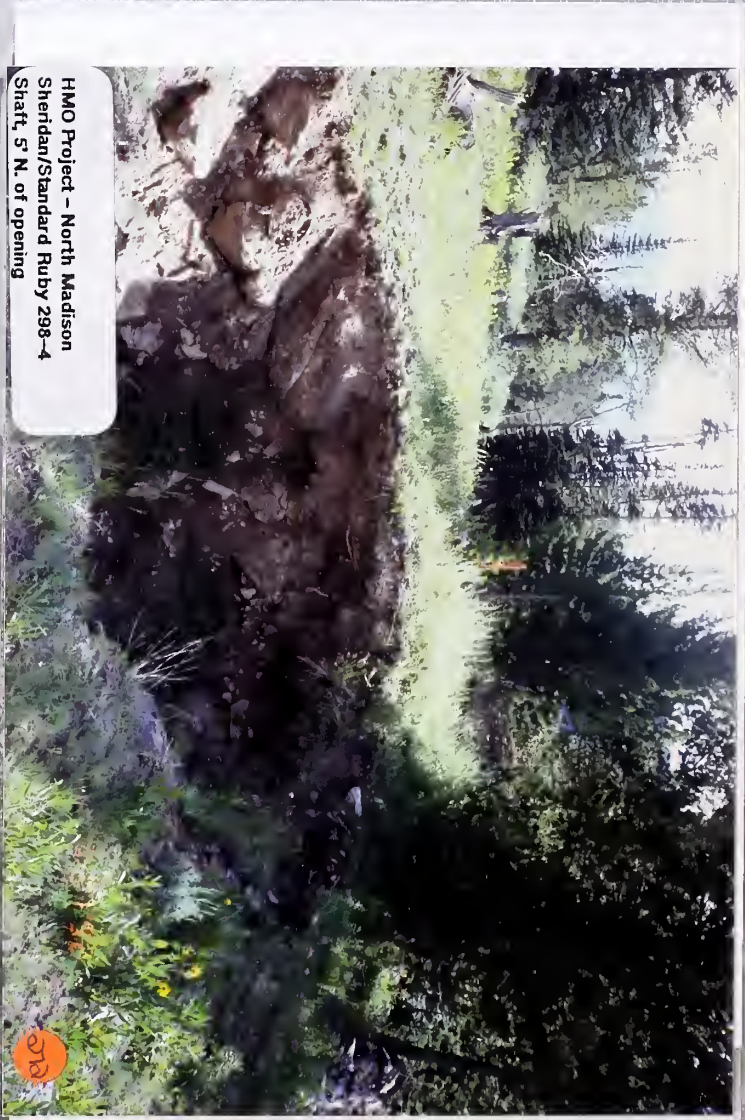
298-1 Standard/Ruby
After: 10' N
North Madison I Project/Photo No:



298-2 Standard/Ruby
After: 15' W of Closure
North Madison I Project/Photo No.:



298-3 Project - North Madison
Sheridan/Standard Pt by 298-3
Add: 20' W. of opening



HMO Project - North Madison
Sheridan/Standard Ruby 298-4
Shaft, 5' N. of opening



298-3 Standard/Ruby
After: 10' S of Closure
North Madison I Project/Photo No.:



298-4 Standard/Ruby
After: 20' N of Closure
North Madison | Project/Photo No:

12293
298



HMO Project - North Madison
Sheridan/Standard Ruby 298-5
Trench, 5' W. of site

298



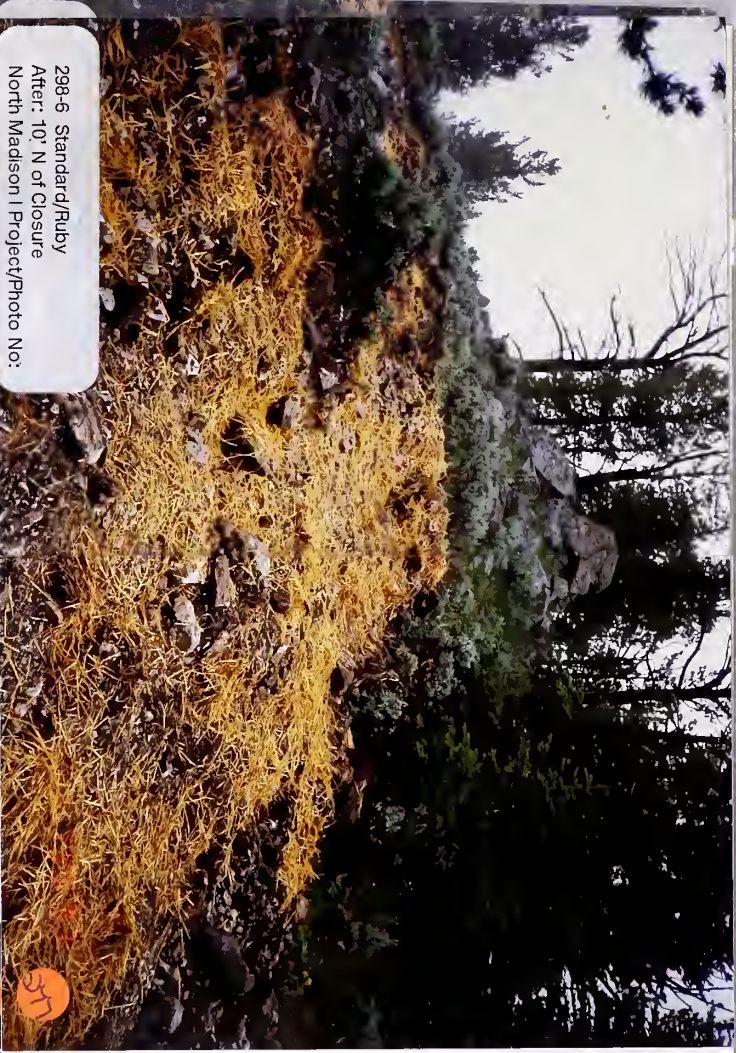
HMO Project - North Madison
Sheridan/Standard Ruby 298-6
Shaft, 5' E. of opening

12292
298



298-5 Standard/Ruby
After: 10' S of Closure
North Madison | Project/Photo No:

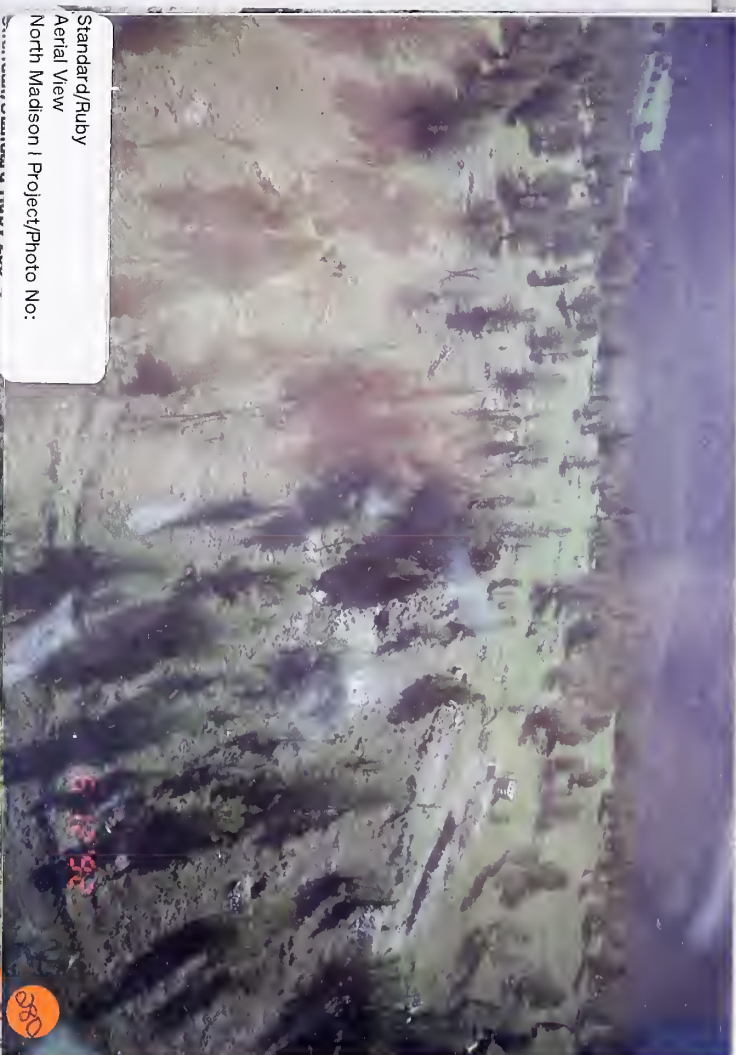
12293
298



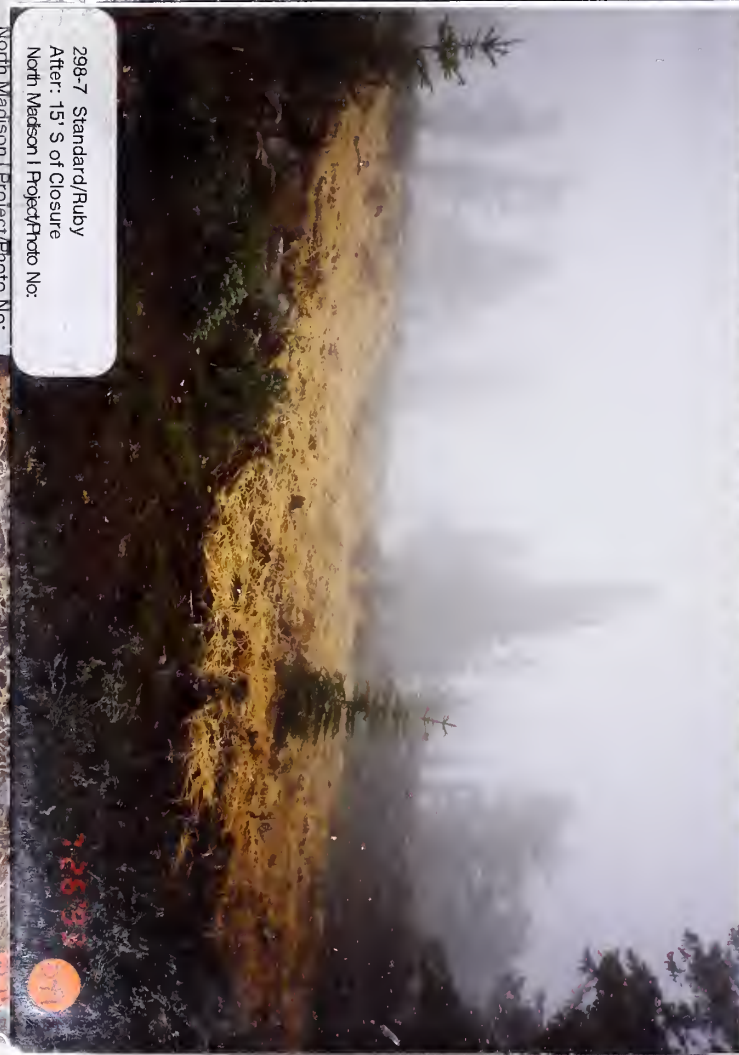
298-6 Standard/Ruby
After: 10' N of Closure
North Madison I Project/Photo No:



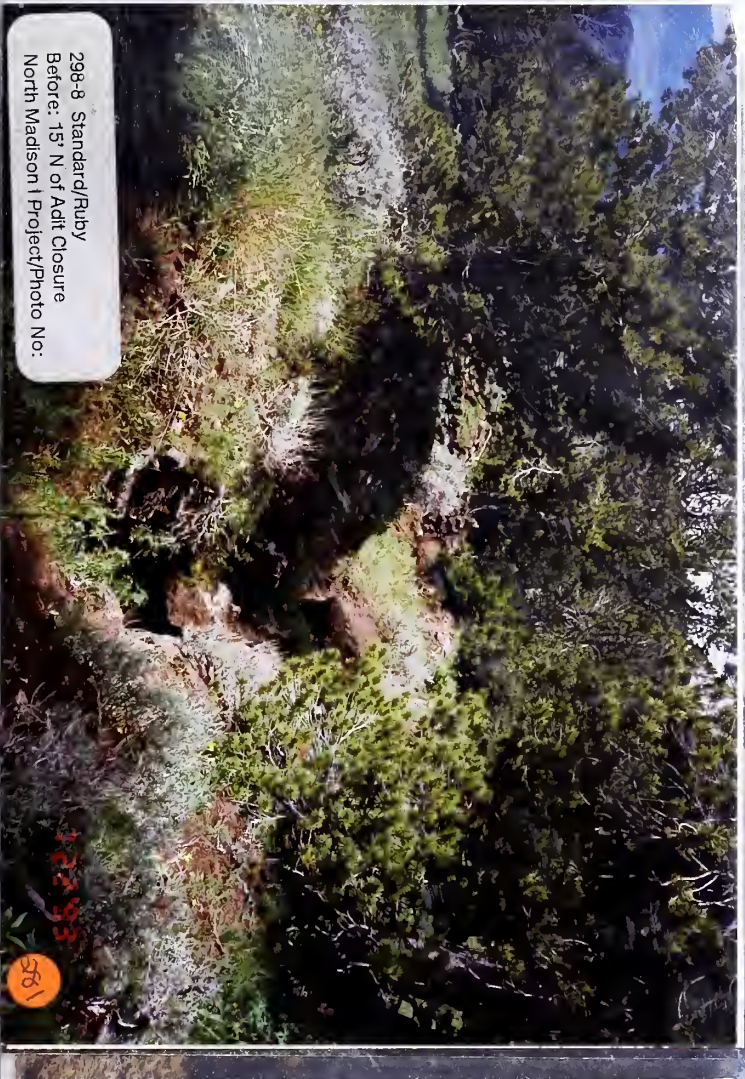
NM0 Project - N
Shedden/Standards
After: 5' E. of opening
North Madison I Project/Photo No:



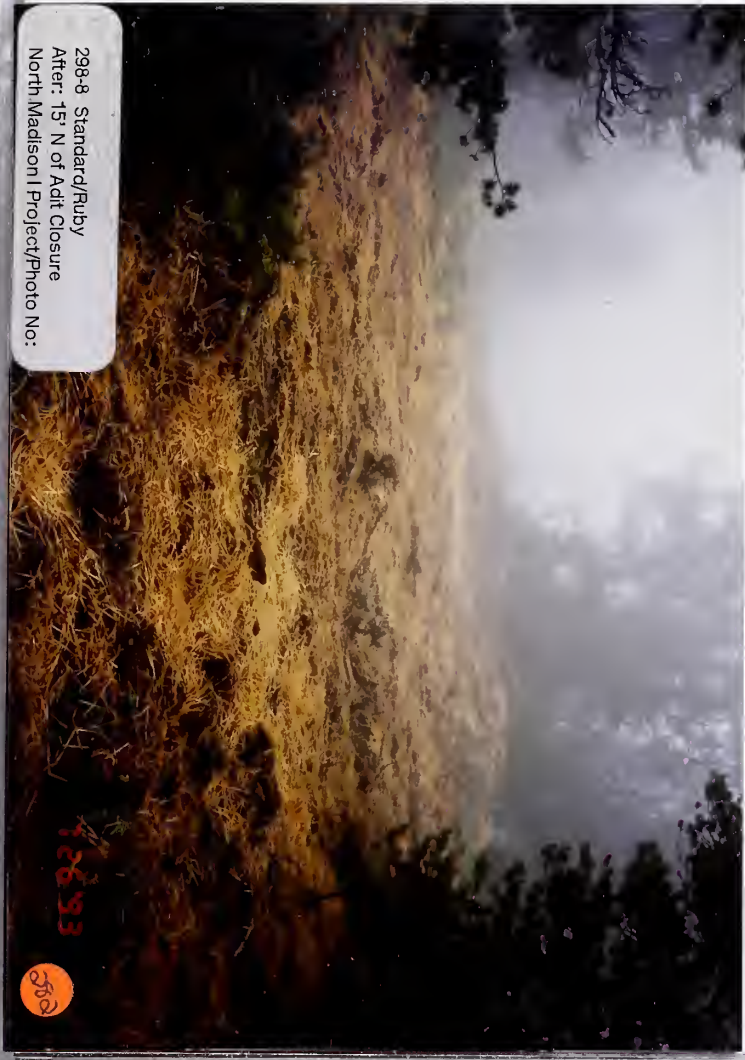
Standard/Ruby
Aerial View
North Madison I Project/Photo No:
After: 5' N. of opening
North Madison I Project/Photo No:



298-7 Standard/Ruby
After: 15' S of Closure
North Madison I Project/Photo No:
North Madison I Project/Photo No:



298-8 Standard/Ruby
Before: 15' N of Adit Closure
North Madison I Project/Photo No:



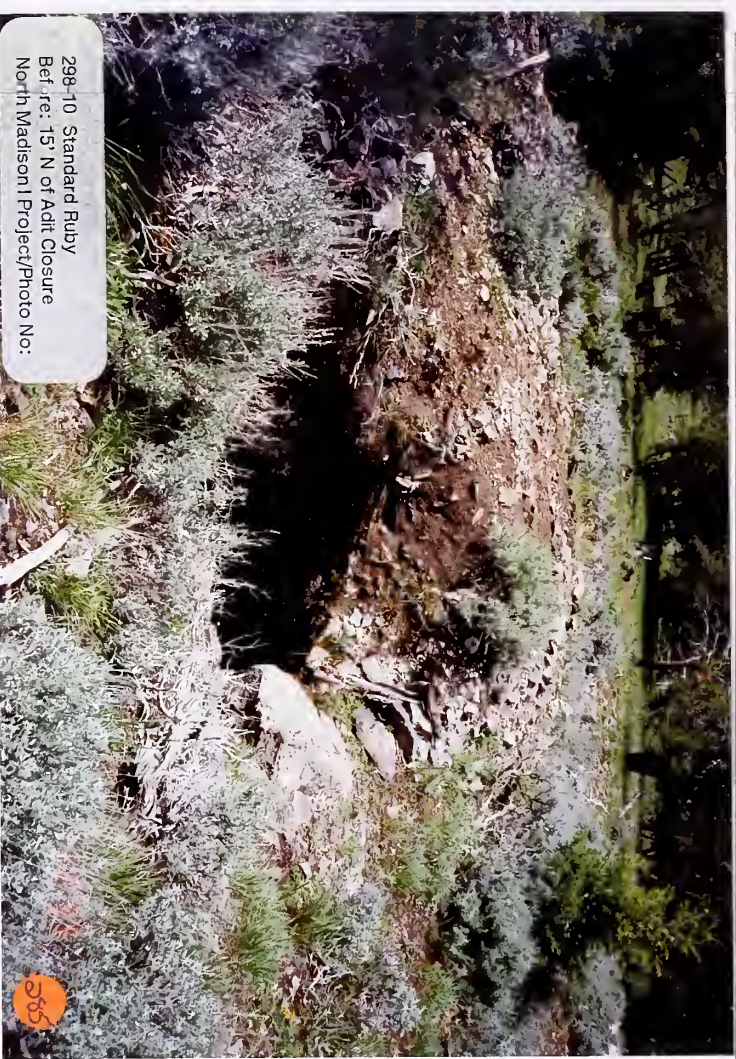
298-8 Standard/Ruby
After: 15' N of Adit Closure
North Madison I Project/Photo No:



298-9 Standard/Ruby
After: 30' N of Adit Closure
North Madison I Project/Photo No:



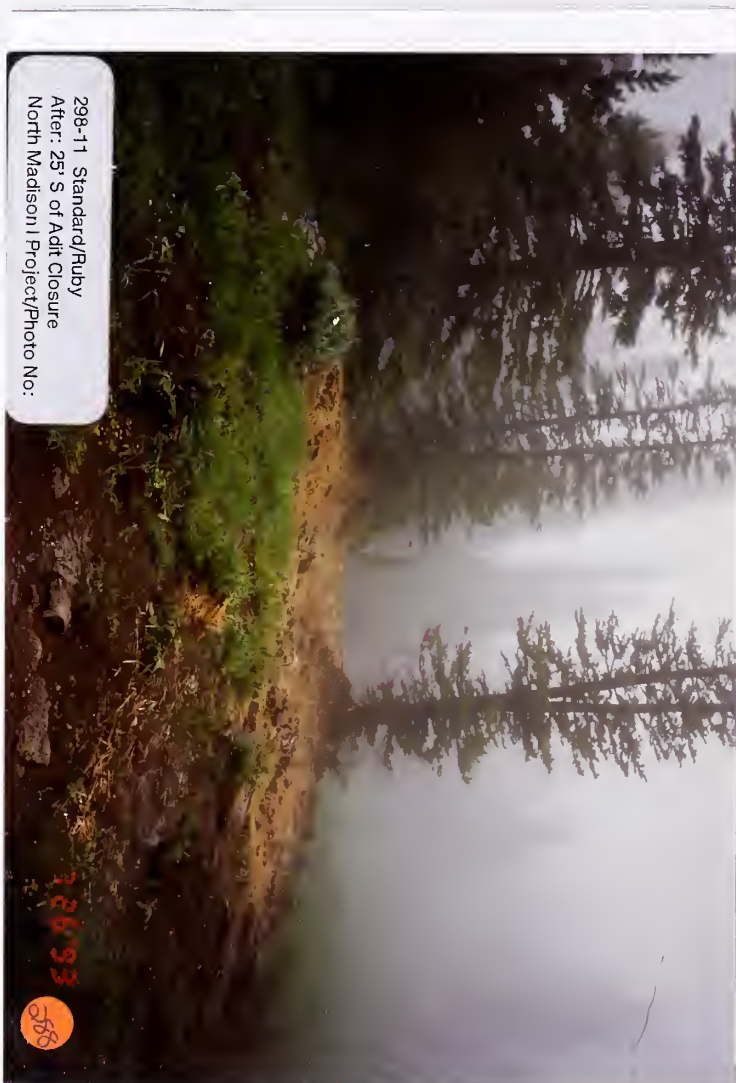
298-9 Standard/Ruby
Before: 10' E of Adit Closure
North Madison I Project/Photo No:



298-10 Standard Ruby
Before: 15' N of Adit Closure
North Madison I Project/Photo No:



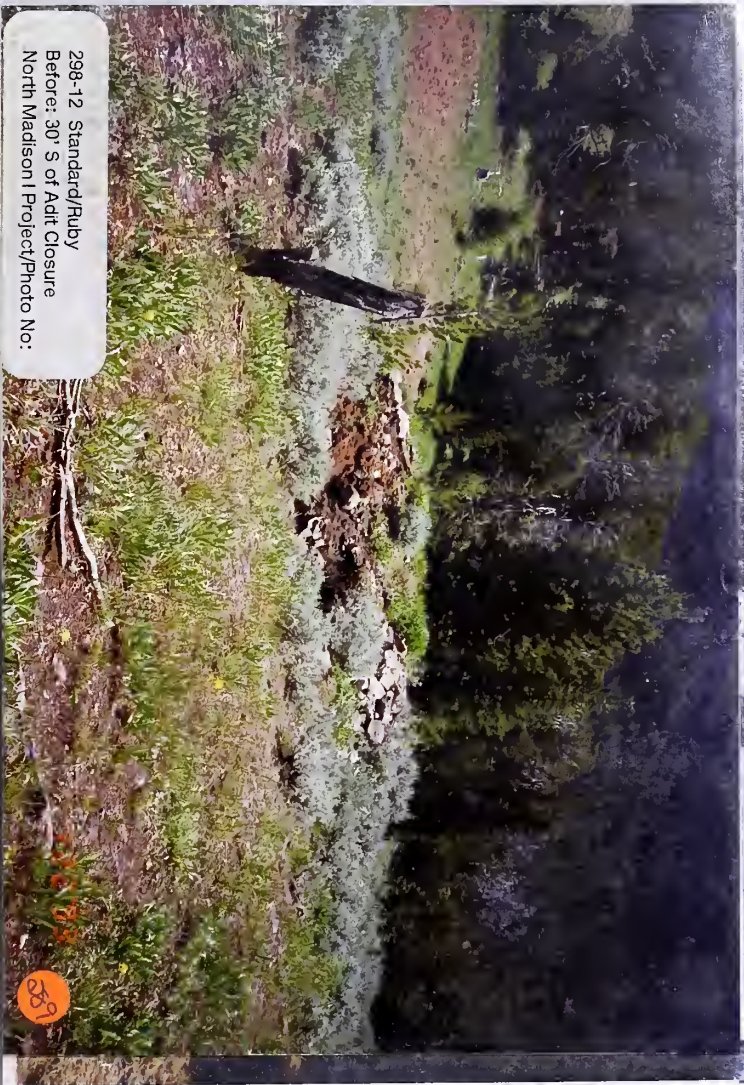
298-09 Standard Ruby
After: 15' S of Adit Closure
North Madison I Project/Photo No:



298-11 Standard/Ruby
After: 25' S of Adit Closure
North Madison I Project/Photo No:



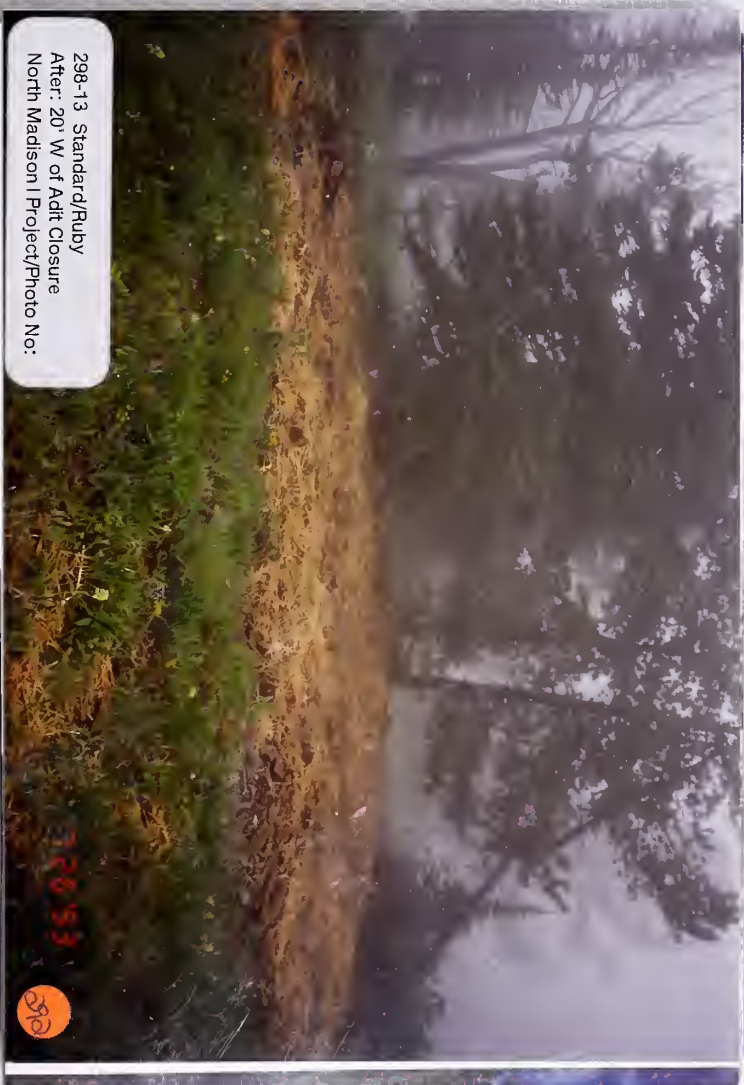
298-11 Standard/Ruby
Before: 15' S of Adit Closure
North Madison I Project/Photo No:



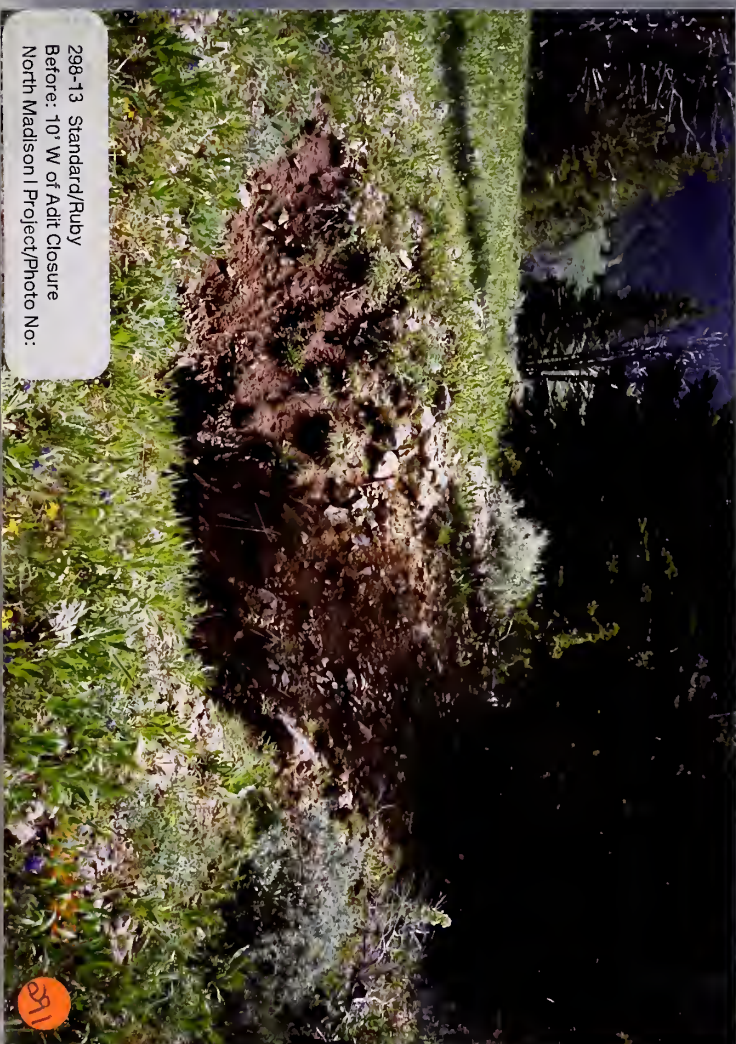
298-12 Standard/Ruby
Before: 30' S of Adit Closure
North Madison | Project/Photo No:



298-12 Standard/Ruby
After: 20' S of Adit Closure
North Madison | Project/Photo No:



298-13 Standard/Ruby
After: 20' W of Adit Closure
North Madison | Project/Photo No:



298-13 Standard/Ruby
Before: 10' W of Adit Closure
North Madison | Project/Photo No:



298-14 Standard/Ruby
Before: 10' W of Adit Closure
North Madison I Project/Photo No:

298



298-16 Standard/Ruby
Before: 5' S of Closure
North Madison I Project/Photo No:

296



298-14 St
After: 15'
North Madison I Project/Photo No:

294



298-15 Standard/Ruby
Before: 15' N of Closure
North Madison I Project/Photo No:

296



298-16 Standard/Ruby
 After: 10' W of Closure
 North Madison I Project/Photo No:

81



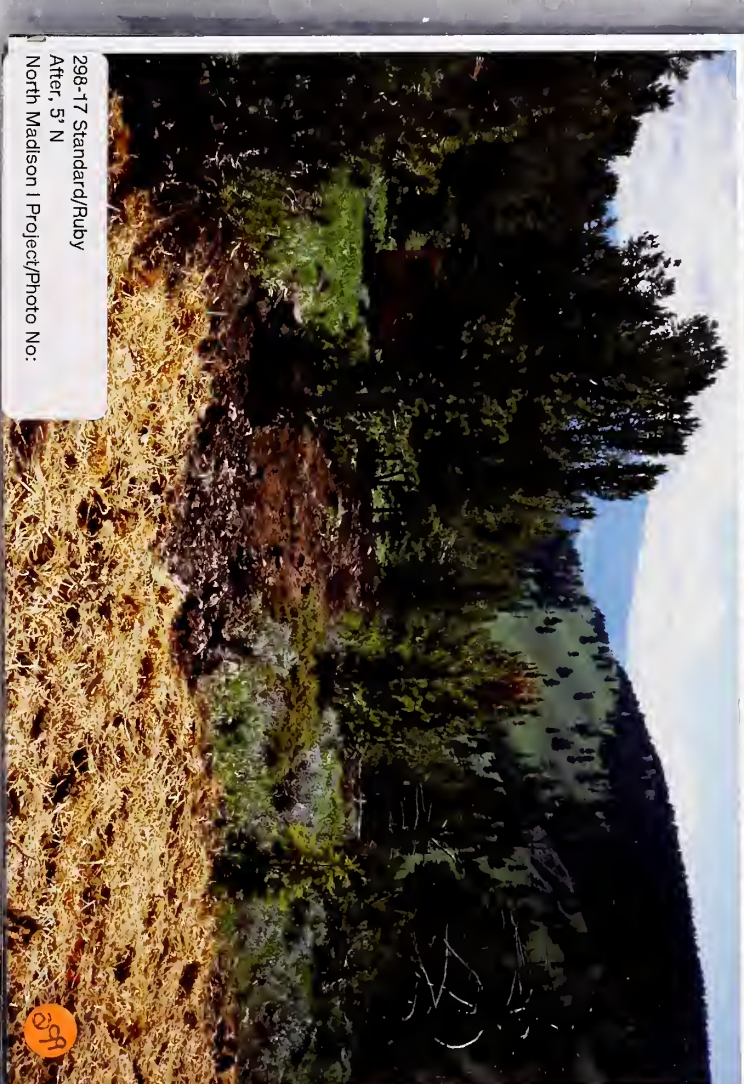
298-17 Standard/Ruby
 After: 20' S of Closure
 North Madison I Project/Photo No:

80



298-17 Standard/Ruby
 Before: 20' S of Closure
 North Madison I Project/Photo No:

81



298-17 Standard/Ruby
 After: 5' N
 North Madison I Project/Photo No:

80



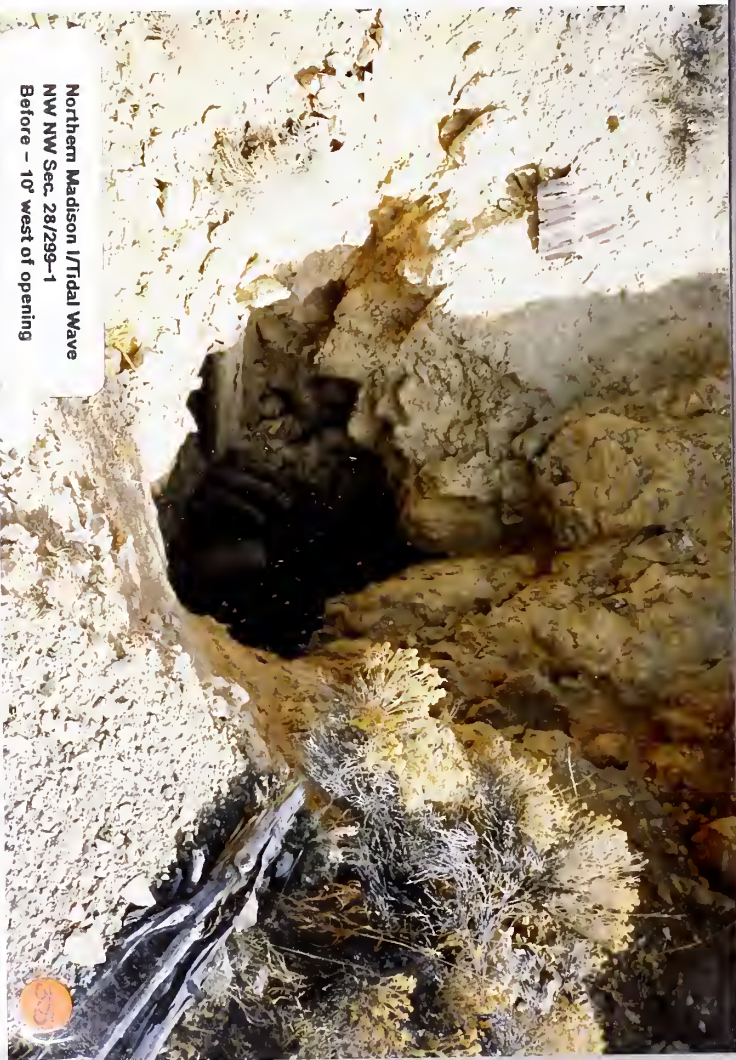
Northern Madison I/Tidal Wave
NW NW Sec. 28/29-1
Portal Area-trash



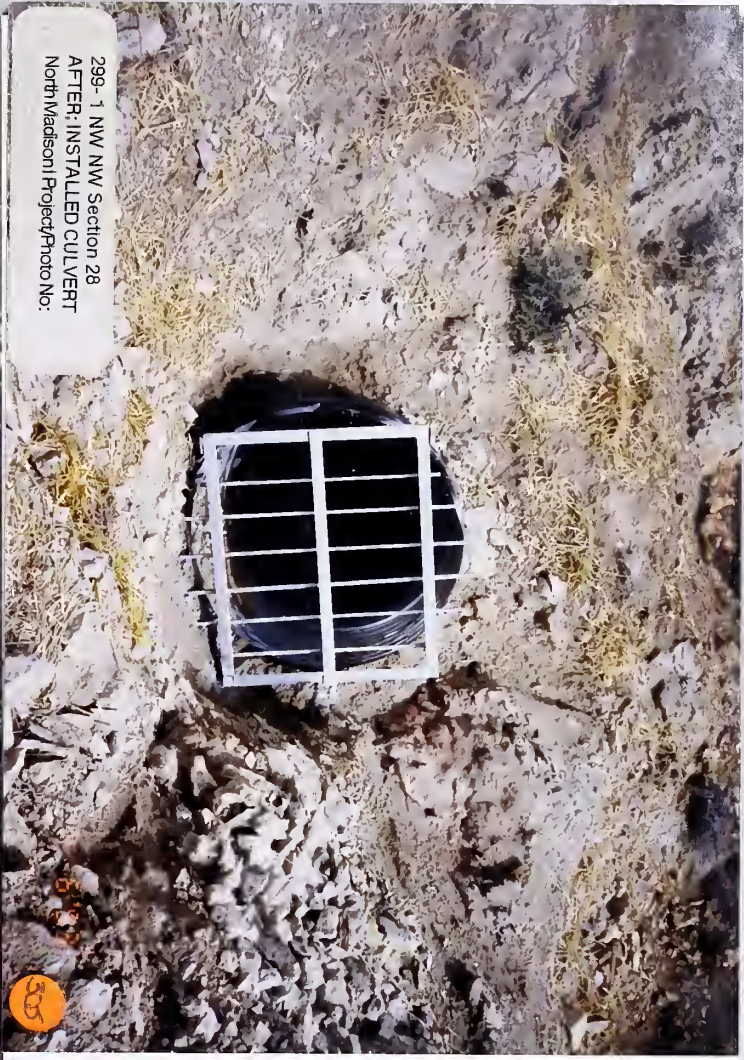
299-1 NW NW Section 28
DURING: 20' W OF ADIT, INSTALL
CULVERT
North Madison I Project/Photo No:



Northern Madison I/Tidal Wave
NW NW Sec. 28/29-1
Before - 1' west of opening



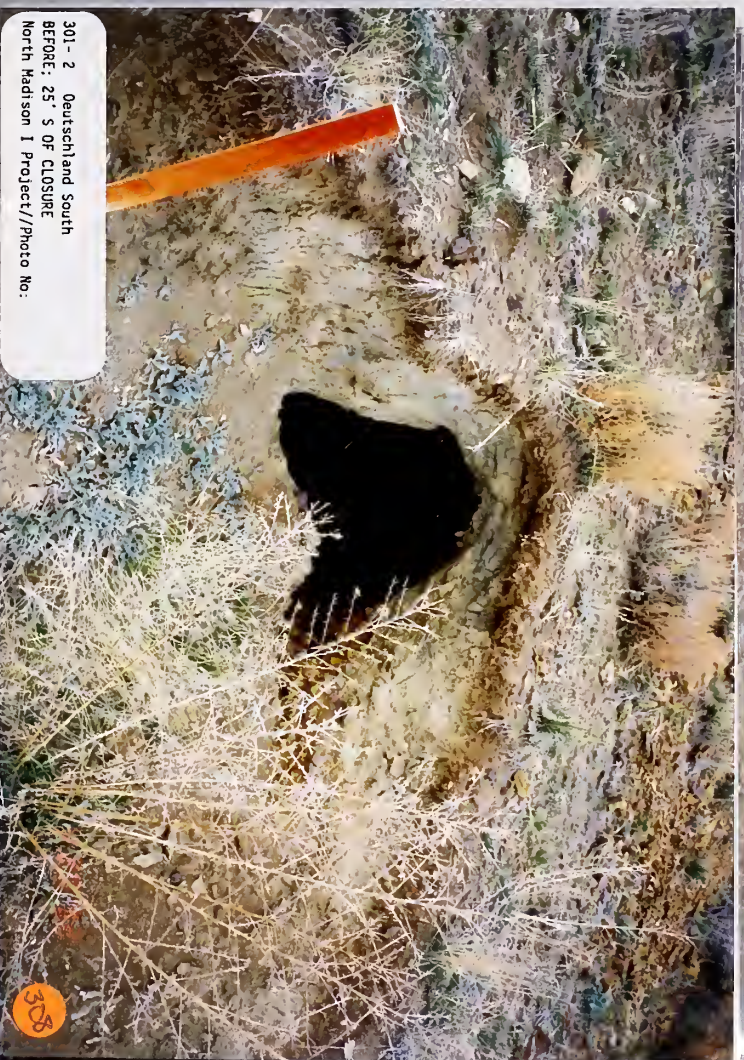
Northern Madison I/Tidal Wave
NW NW Sec. 28/29-1
Before - 10' west of opening



299- 1 NW NW Section 28
AFTER: INSTALLED CULVERT
North Madison Project/Photo No:



Northern Madison I/Tidal Wave
Deutschland South/301-1
Before, 15' south of opening



301- 2 Deutschland South
BEFORE: 25' S OF CLOSURE
North Madison I Project//Photo No:



301- 1 Deutschland South
AFTER: 15' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:

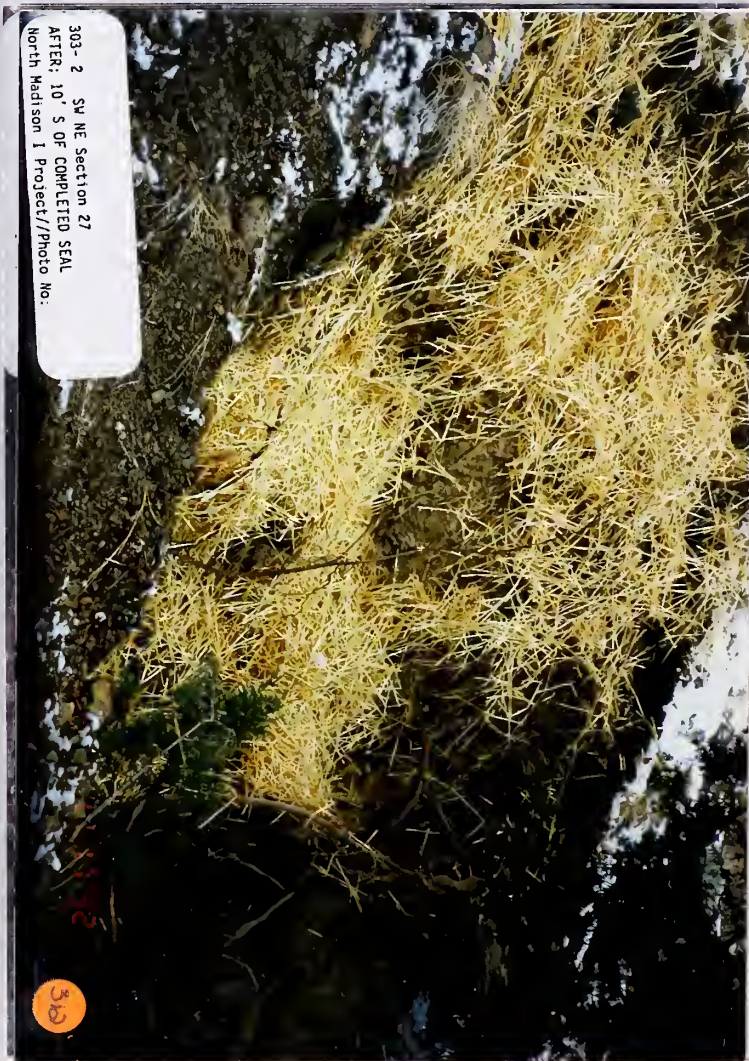
301- 2 Deutschland South
AFTER: 25' S OF COMPLETED CLOSURE
North Madison I Project//Photo No.:



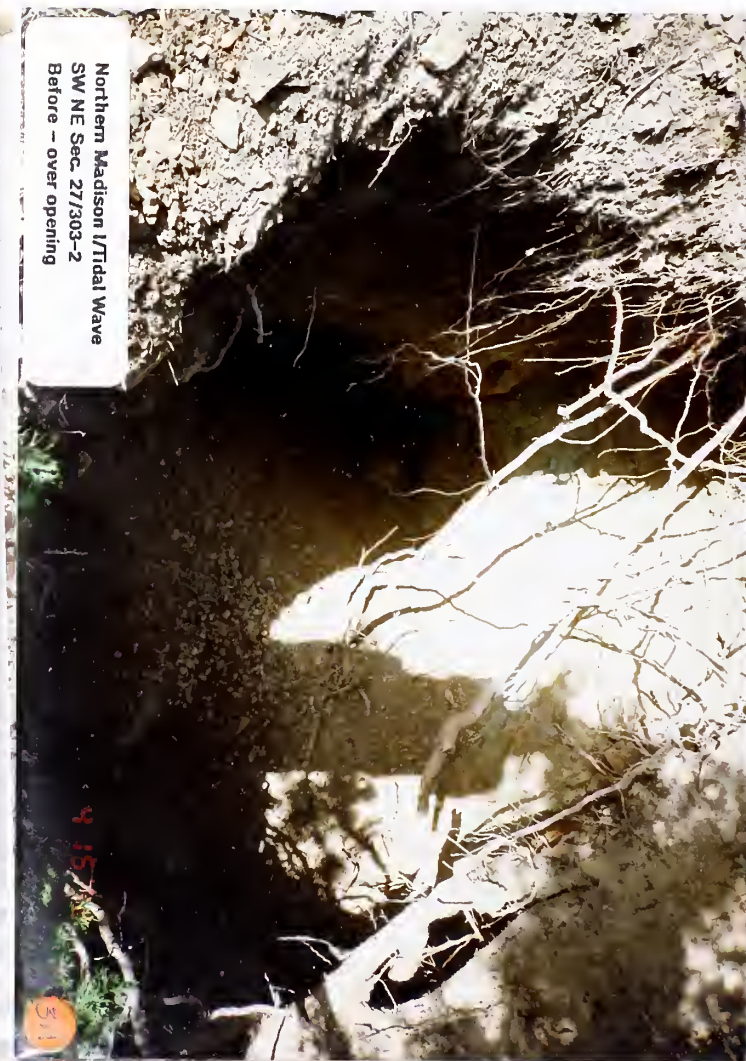
Northern Madison I/Tidal Wave
SW NE Sec. 27/303-2
Before - 30' south of opening



303- 2 SW NE Section 27
AFTER: 10' S OF COMPLETED SEAL
North Madison I Project//Photo No.:

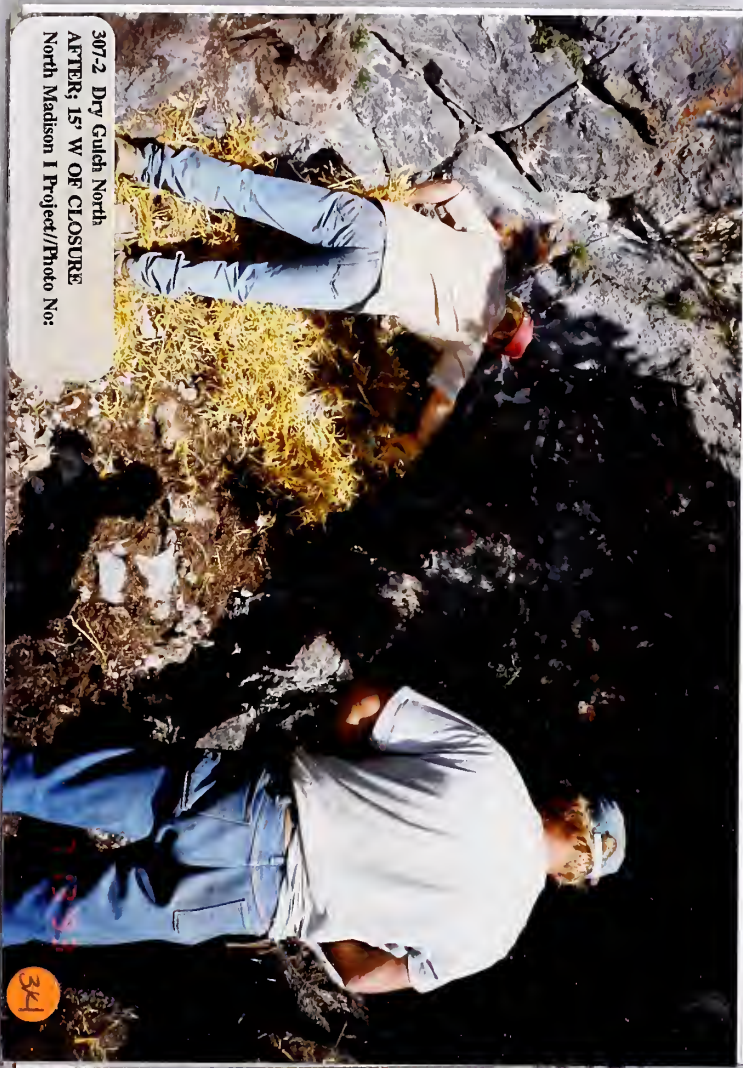


Northern Madison I/Tidal Wave
SW NE Sec. 27/303-2
Before - over opening





307-2
Northern Madison I/Tidal Wave
Dry Gulch North/307-2
Before, 5' west of opening



307-3
Dry Gulch North
AFTER: 15' W OF CLOSURE
North Madison I Project//Photo No:



307-4
Dry Gulch North
AFTER: 30' N OF COMPLETED SEAL
North Madison I Project//Photo No:



307-5
Northern Madison I/Tidal Wave
Dry Gulch North/307-5
Before, 15' west of opening

307- 4 Dry Gulch North
After: 15' W OF COMPLETED SEAL
North Madison I Project//Photo No:



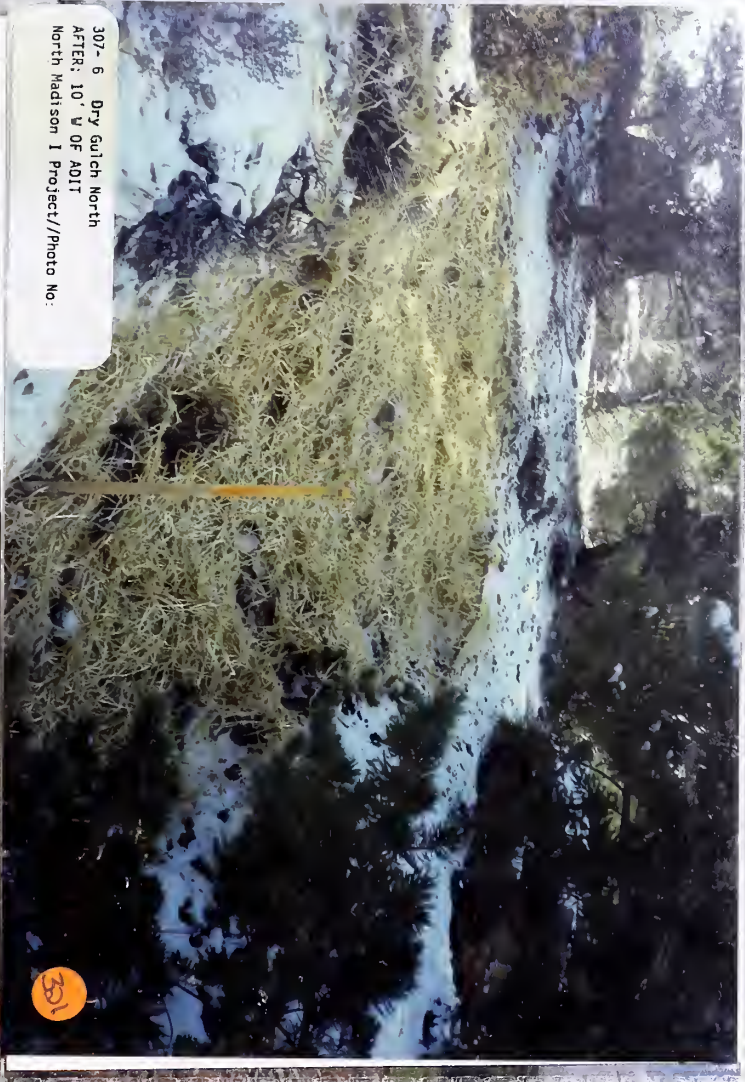
Northern Madison I/Tidal Wave
Dry Gulch North/307-4
Before, 20' west of opening

307- 6 Dry Gulch North
Before: 10' W OF ADIT
North Madison I Project//Photo No:



307- 6 Dry Gulch North
During: 20' W OF ADIT
North Madison I Project//Photo No:





307- 6 Dry Gulch North
AFTER: 10' W OF ADIT
North Madison I Project//Photo No:

307



Northern Madison I/Tidal Wave
Dry Gulch North/307-7
Before, 15' north of opening

307



Northern Madison I/Tidal Wave
Dry Gulch North/307-8
Before, 5' west of opening

307



307- 7 Dry Gulch North
AFTER: 20' N OF COMPLETED SEAL
North Madison I Project//Photo No:

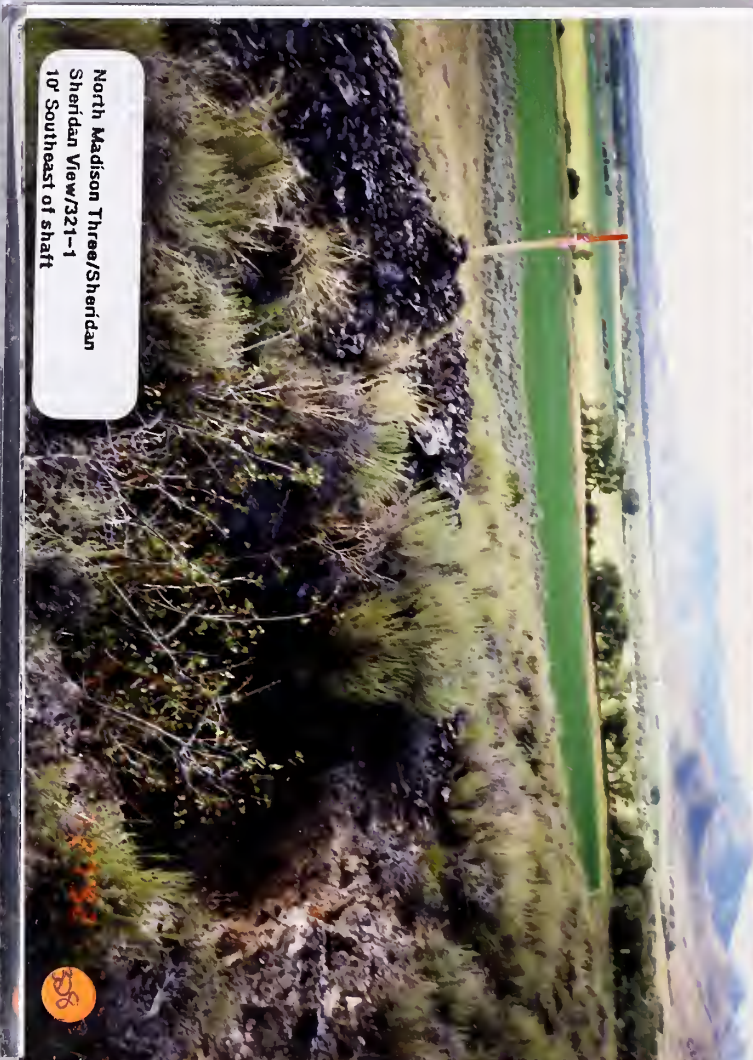
307



307 - 8 Dry Gulch North
 AFTER: 10' S OF COMPLETED SEAL
 North Madison I Project/Photo No:



Northern Madison I/Shepherdan
 N. Fk. Antelope Gulch/319-1
 Before, 5' S of opening



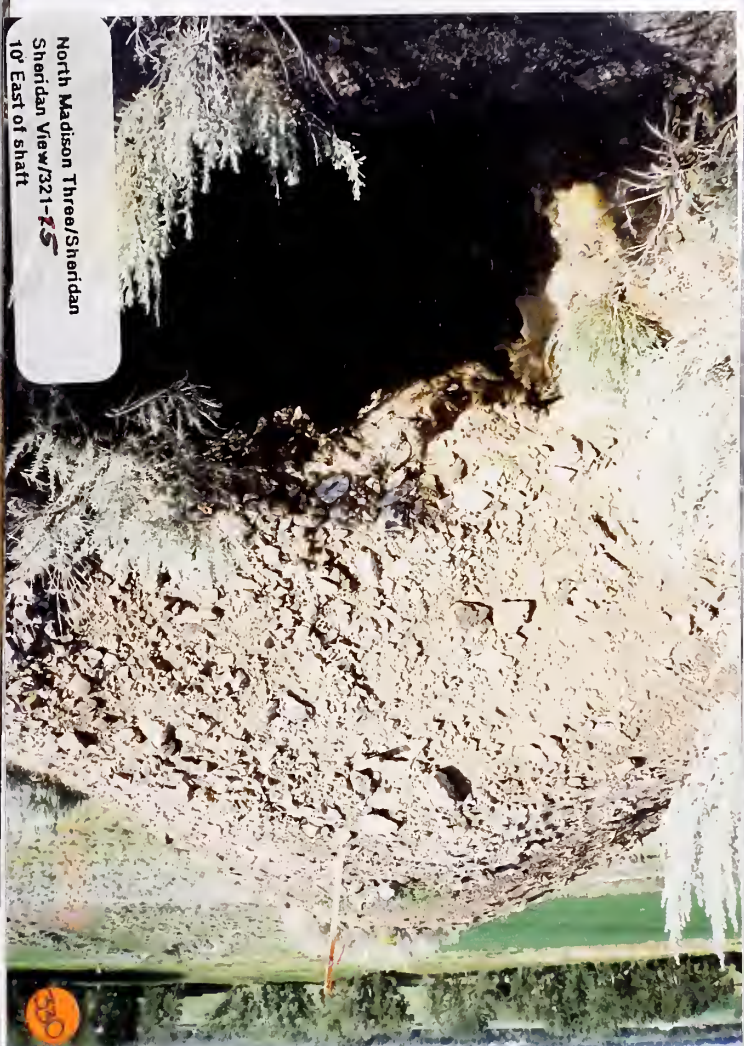
North Madison Three/Shepherdan
 Shepdan View/321-1
 10' Southeast of shaft



319-1, North Fork Antelope Creek
 After: 15' E of Adit Closure
 North Madison I Project/Photo No:



321-1 Sheridan View
Complete grate, 20' E
North Madison I Project/Photo No:



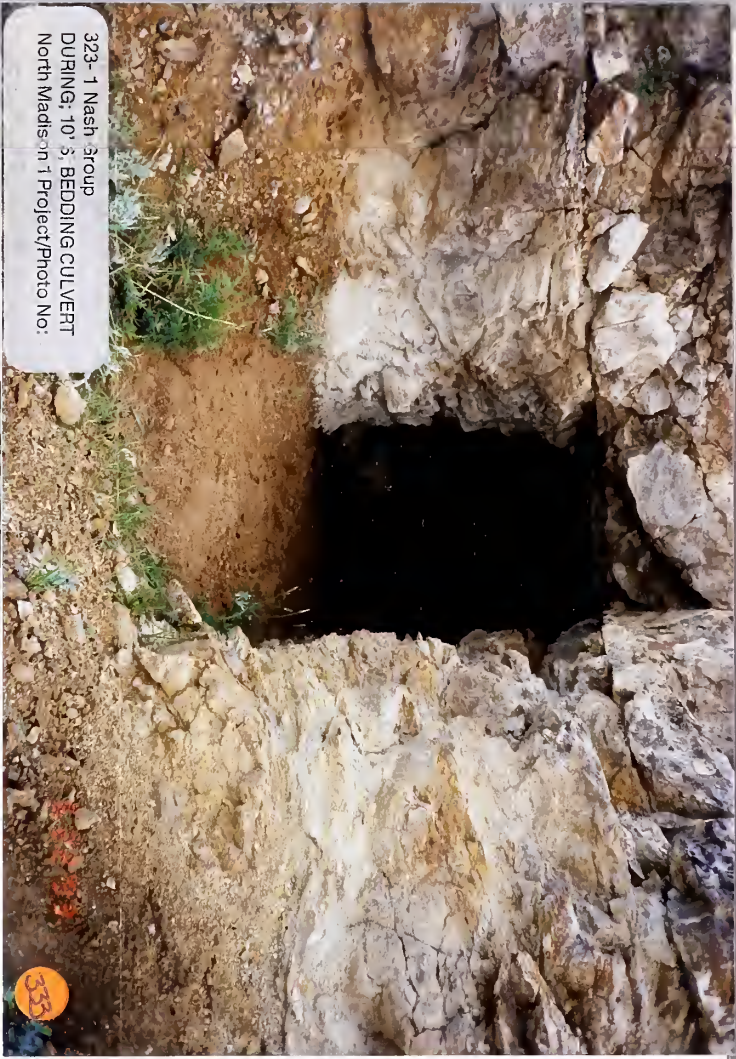
North Madison Three/Sheridan
Sheridan View/321-1
10' East of shaft



Northern Madison I/Sheridan
Nash/323-1
E



321-5 Sheridan View
Installing grate, 20' E
North Madison I Project/Photo No:



323- 1 Nash Group
DURING: 10' S. BEDDING CULVERT
North Madison 1 Project/Photo No:



323- 1 Nash Group
AFTER: 10' S. OF CULVERT
North Madison 1 Project/Photo No:



326-1 Antelope Gulch No. 2
AFTER: 15' E OF CULVERT
North Madison 1 Project/Photo No:



Northern Madison I/Sheridan
Antelope Gulch #2/326-1
Before, 35' S of opening



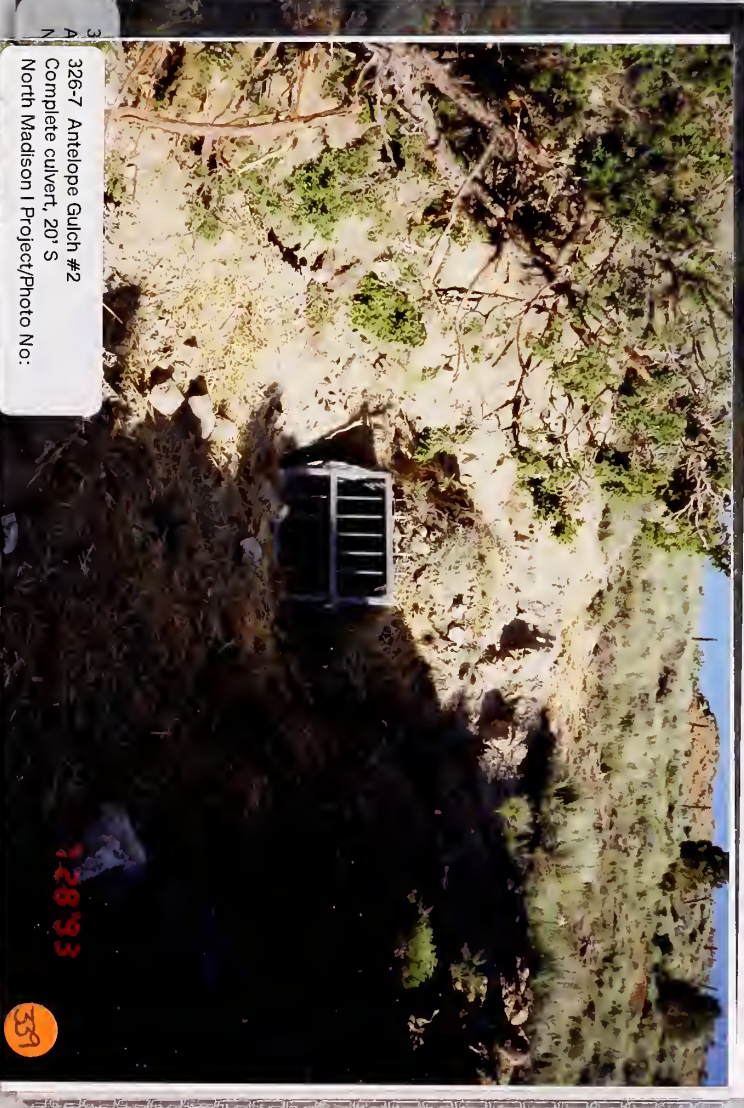
Northern Madison I/Shendean
Antelope Gulch #2/326-67
Before, 35' SE of opening



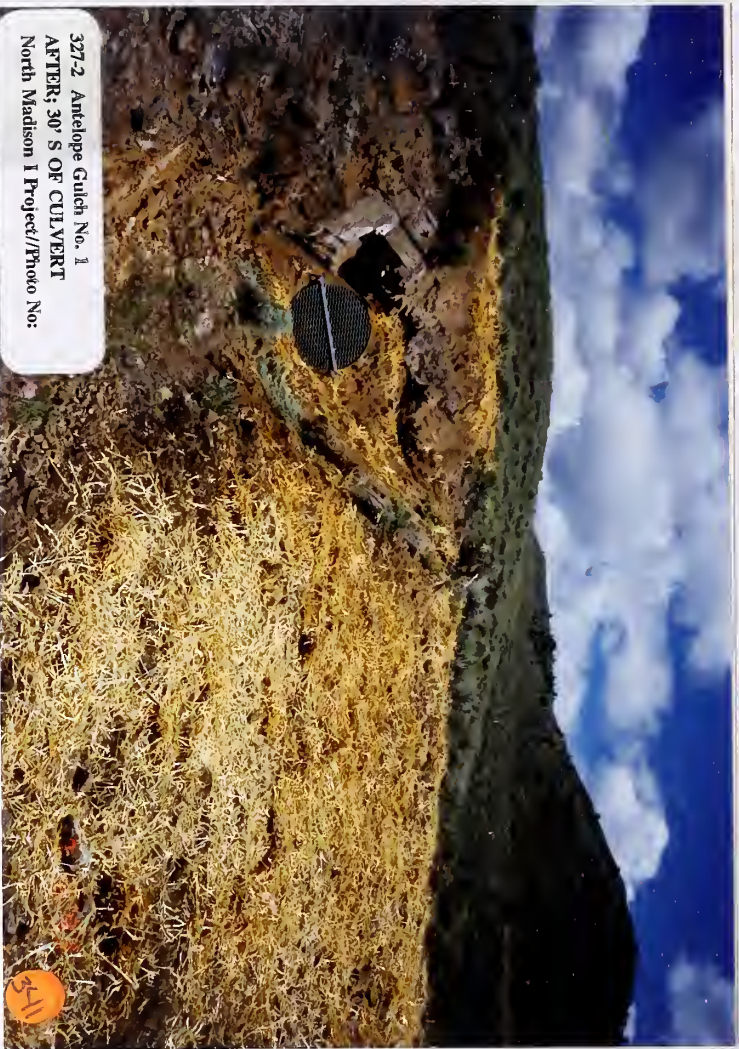
326-7 Antelope Gulch No. 2
During, 30' S of Culvert
North Madison I Project/Photo No:



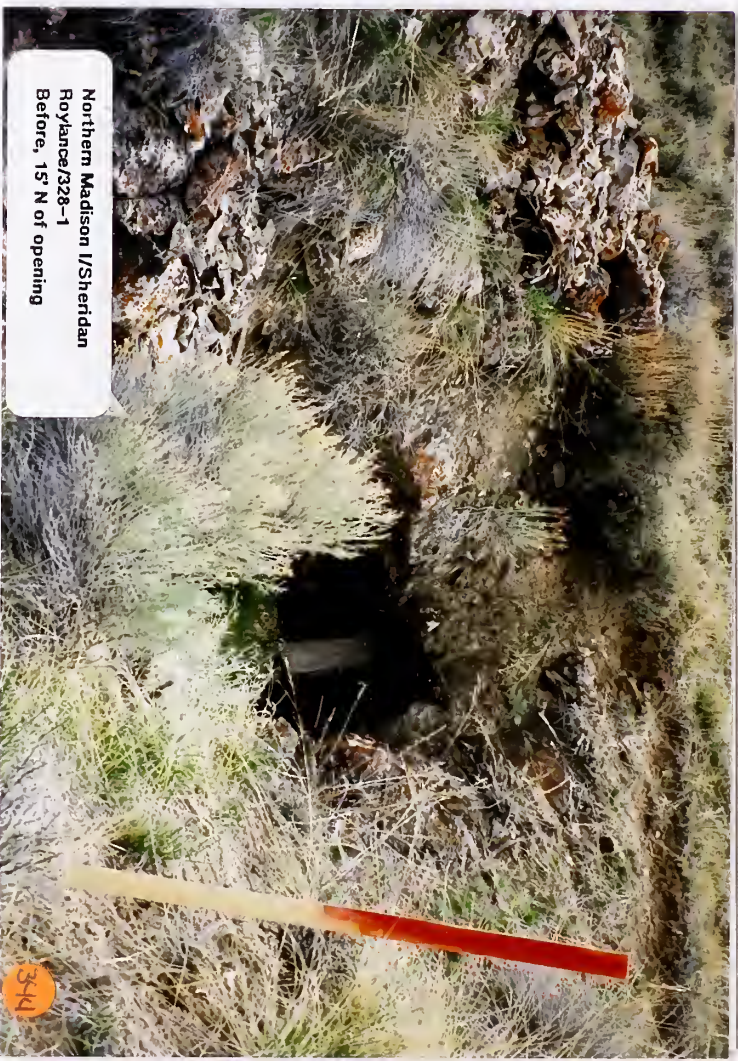
Northern Madison I/Shendean
Antelope Gulch #1/327-2
Before, 40' SW of opening



326-7 Antelope Gulch #2
Complete culvert, 20' S
North Madison I Project/Photo No:



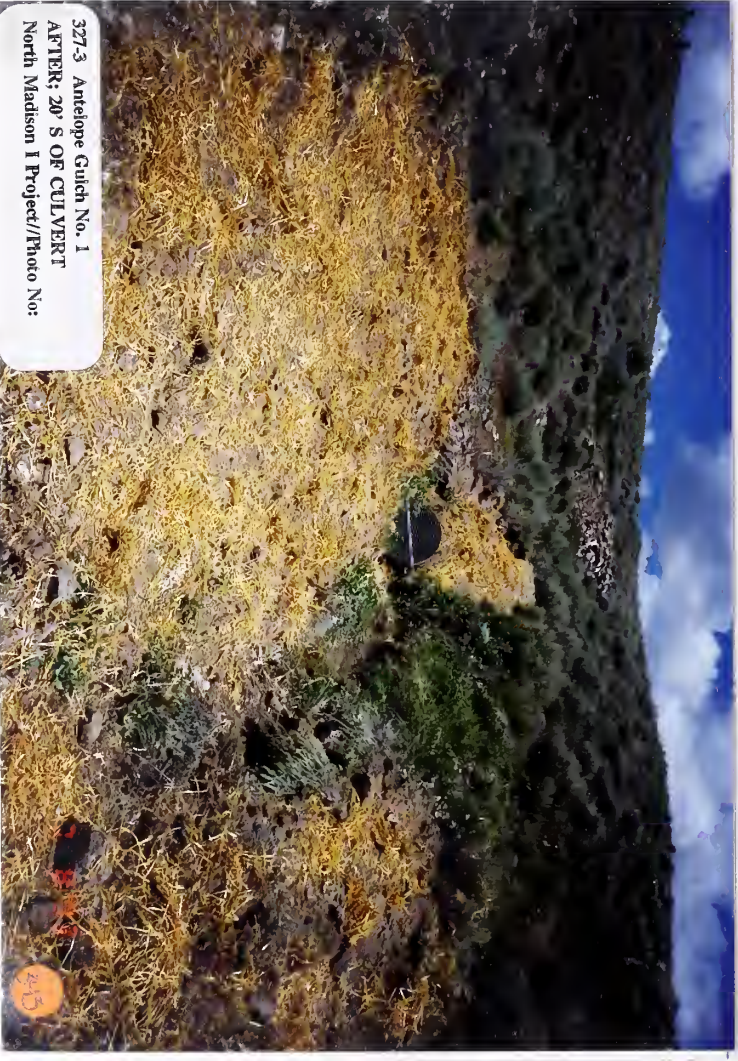
327-2 Antelope Gulch No. 1
AFTER: 30' S OF CULVERT
North Madison I Project//Photo No:



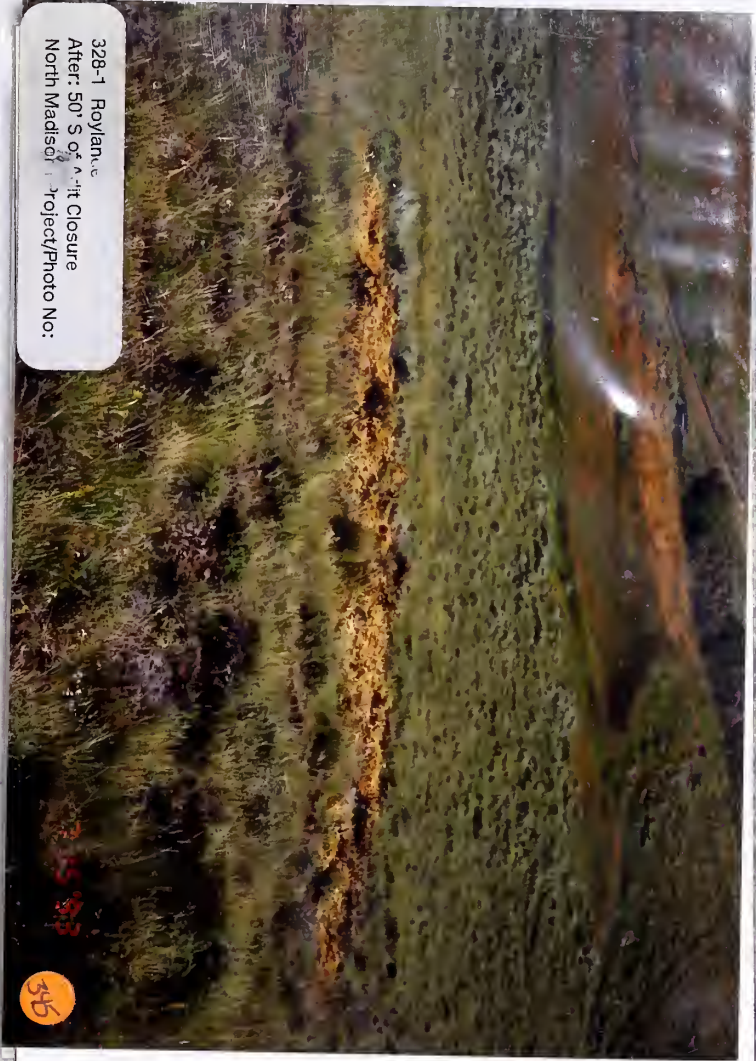
Northern Madison I/Sheridan
Royance/328-1
Before, 15' N of opening



Northern Madison I/Sheridan
Antelope 3 Culch #1/327-3
Before, 25' W of opening



327-3 Antelope Gulch No. 1
AFTER: 20' S OF CULVERT
North Madison I Project//Photo No:



328-1 Roylance
After: 50' S of Adit Closure
North Madison I Project/Photo No:

345



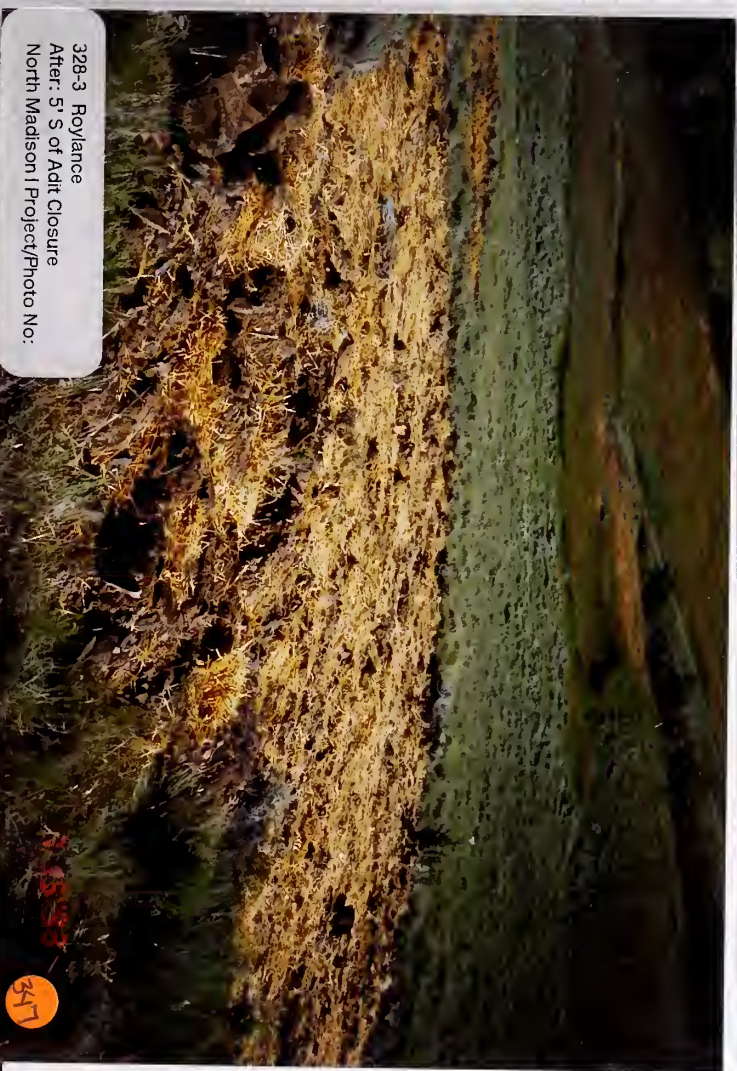
Northern Madison I/Sheridan
Roylance/328-4
Before, 10' E of opening

346



Northern Madison I/Sheridan
Roylance/328-3
Before, 15' N of opening

340

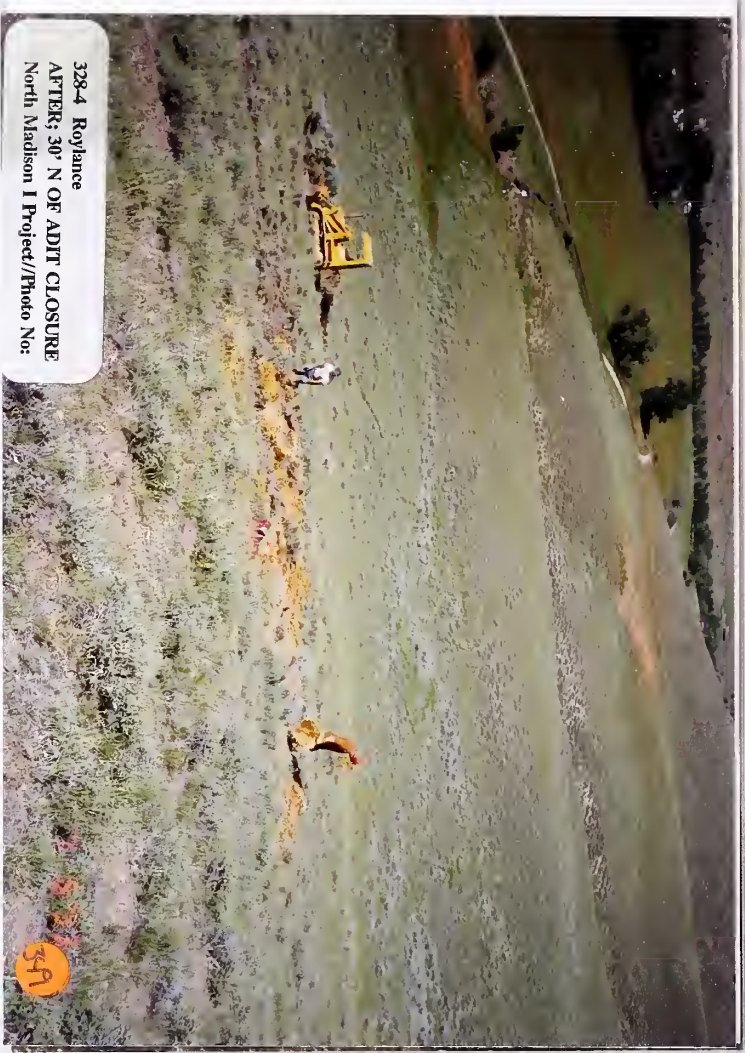


328-3 Roylance
After: 5' S of Adit Closure
North Madison I Project/Photo No:

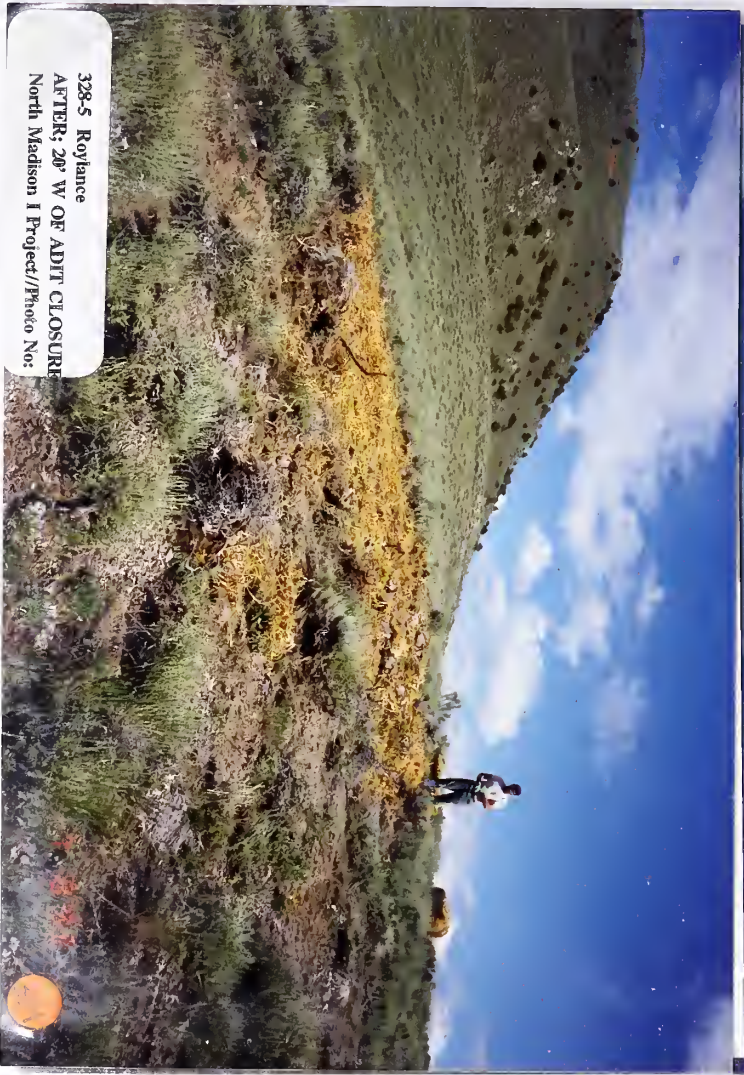
347



Northern Madison I/Sheridan
Roylance/328-5
Before, 5' N of opening



328-4 Roylance
AFTER; 30' N OF ADIT CLOSURE
North Madison I Project//Photo No:



328-5 Roylance
AFTER; 20' W OF ADIT CLOSURE
North Madison I Project//Photo No:



Northern Madison I/Sheridan
Roylance/328-6
Before, 5' N of opening



328-6 Roylance
After: 20' W of Adit Closure
North Madison 1 Project/Photo No:



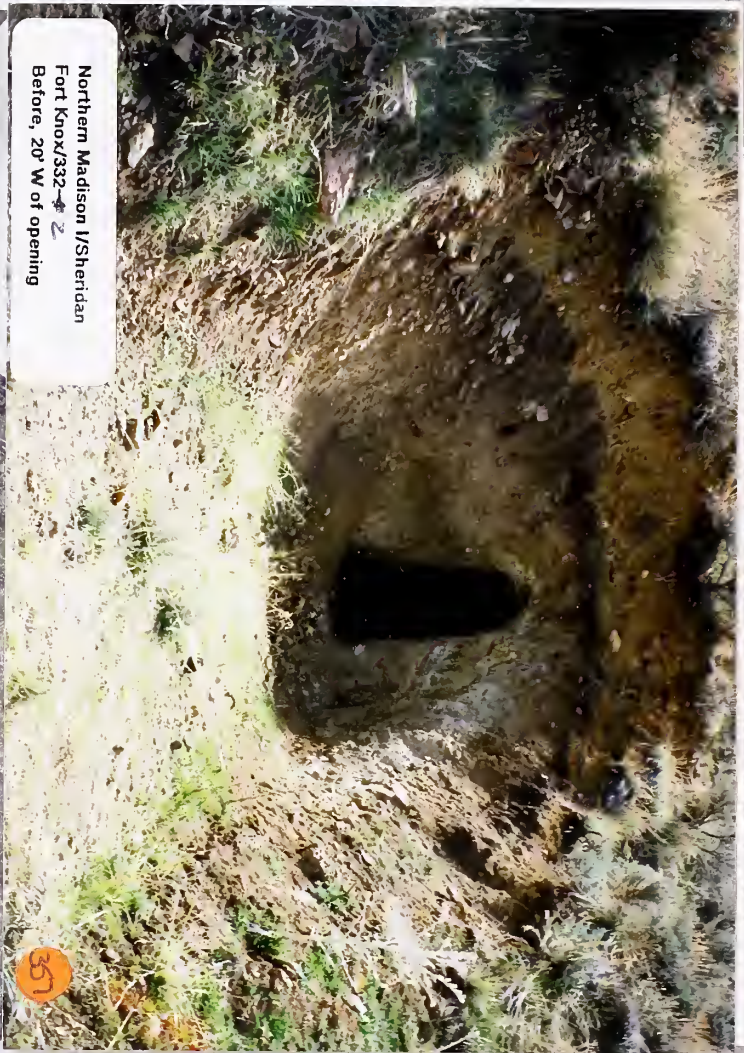
Northern Madison I/Sheridan
O'Rourke/331-1
Before: 30' W of opening



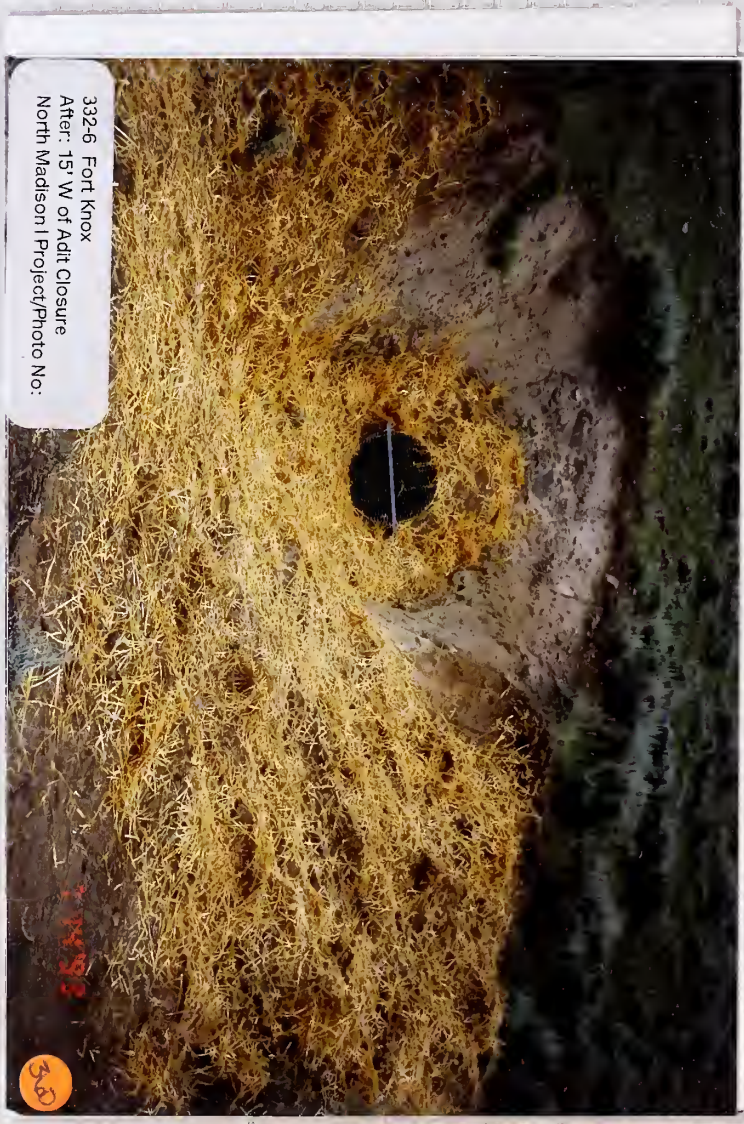
331-1 O'Rourke
AFTER: 10' W OF INSTALLED
CULVERT
North Madison 1 Project/Photo No:



331-1 O'Rourke
DURING: 20' W OF CULVERT
INSTALLATION
North Madison 1 Project/Photo No:



Northern Madison /Sheridan
Fort Knox/332-6
Before, 20' W of opening



332-6 Fort Knox
After: 15' W of Adit Closure
North Madison I Project/Photo No:



332-2 Fort Knox
After: 15' W of / dft Closure
North Madison I Project/Photo No:



Northern Madison /Sheridan
Fort Knox 332-6
Rugose, 25' W of adit



Northern Madison I/Sheridan
Fort Knox/332-8
Before, 30' N of opening

301



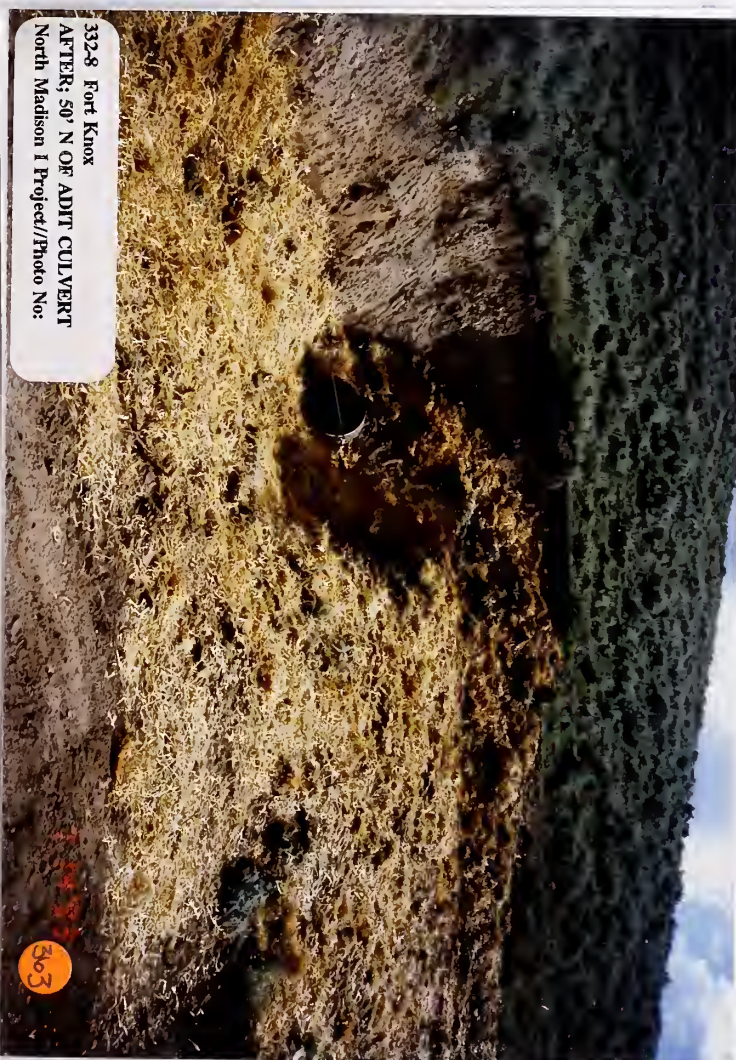
Northern Madison I/Sheridan
Geel/245-1
Before, 15' N of opening

304



332-8 Fort Knox
DURING; 50' N OF ADIT
North Madison I Project//Photo No:

300



332-8 Fort Knox
AFTER; 50' N OF ADIT CULVERT
North Madison I Project//Photo No:

303



345- 1 Geel
DURING: 20' W OF SHAFT,
BACKFILLING
North Madison 1 Project/Photo No:



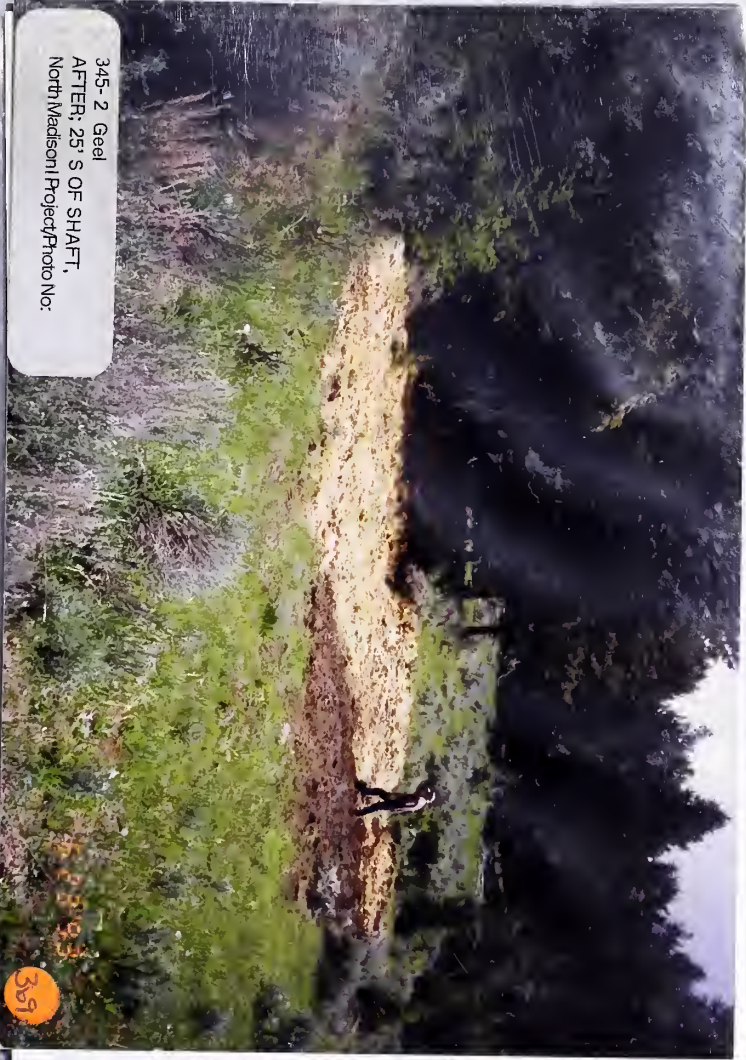
345- 1 Geel
AFTER: 20' W OF COMPLETED
CLOSURE
North Madison 1 Project/Photo No:



345- 2 Geel
DURING: 50' W OF SHAFT
North Madison 1 Project/Photo No:



Northern Madison I/Sheridan
Geel/345-2
Before, 15' S of opening



345- 2 Geel
AFTER; 25' S OF SHAFT,
North Madison Project/Photo No:



Northern Madison I/Sheridan
Lane & Nash/364-1
Before, 10' S of opening



Northern Madison I/Sheridan
SE SE Sec. 18/440-1
Before, 10' W of opening



364- 1 Lane & Nash
AFTER; 15' W OF COMPLETED
SEAL
North Madison 1 Project/Photo No:



Northern Madison I/Tidal Wave
Union/441-1
Before, north edge of slope



440-1 SE Section 18
AFTER: 15' S OF COMPLETED CLOSURE
North Madison 1 Project/Photo No:



Northern Madison I/Tidal Wave
Union/441-2
Before, south edge of slope



441-1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:

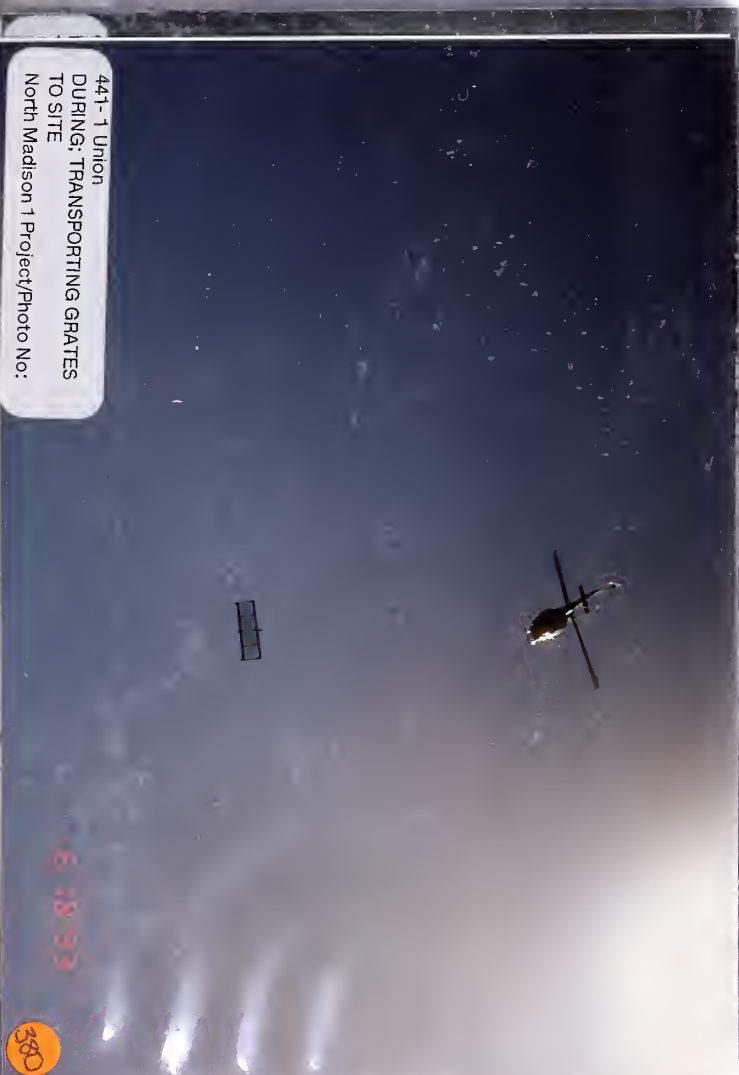
441- 1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



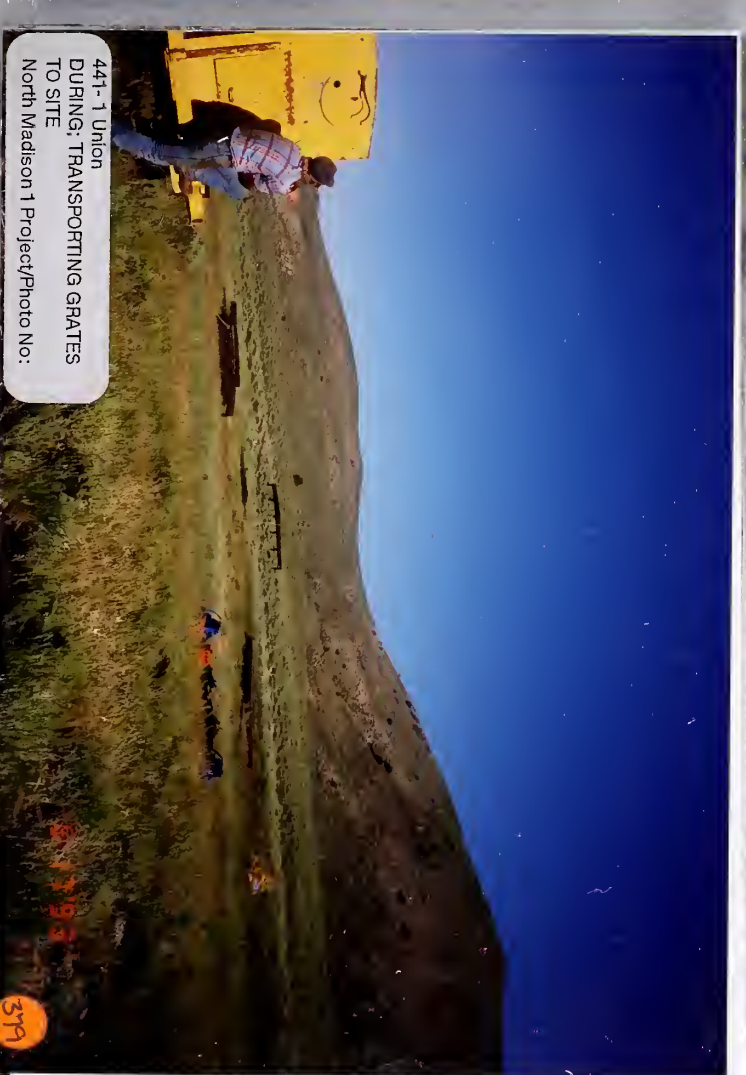
441- 1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



441- 1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



441- 1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



441-1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



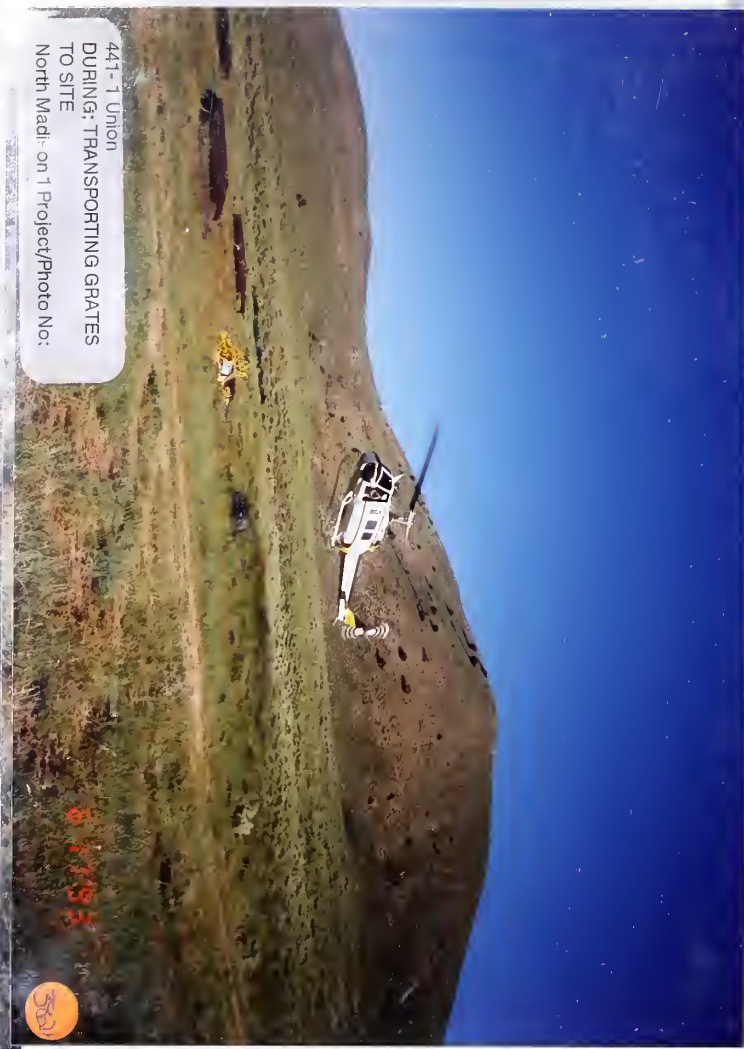
381

441-1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



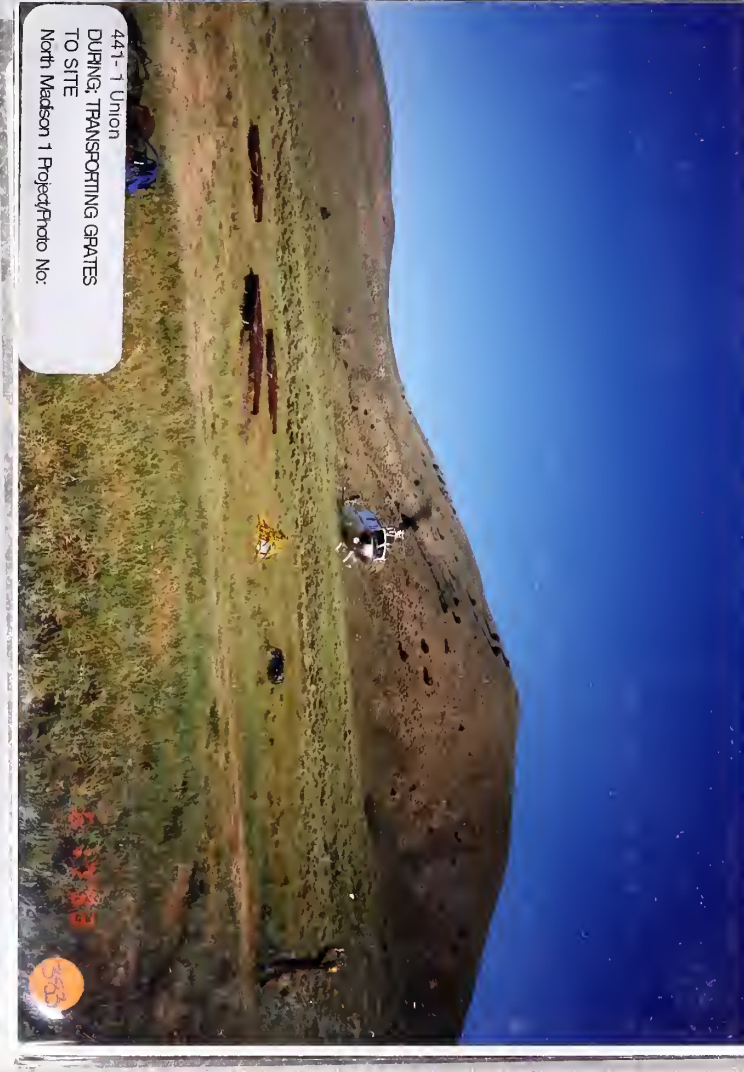
384

441-1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:

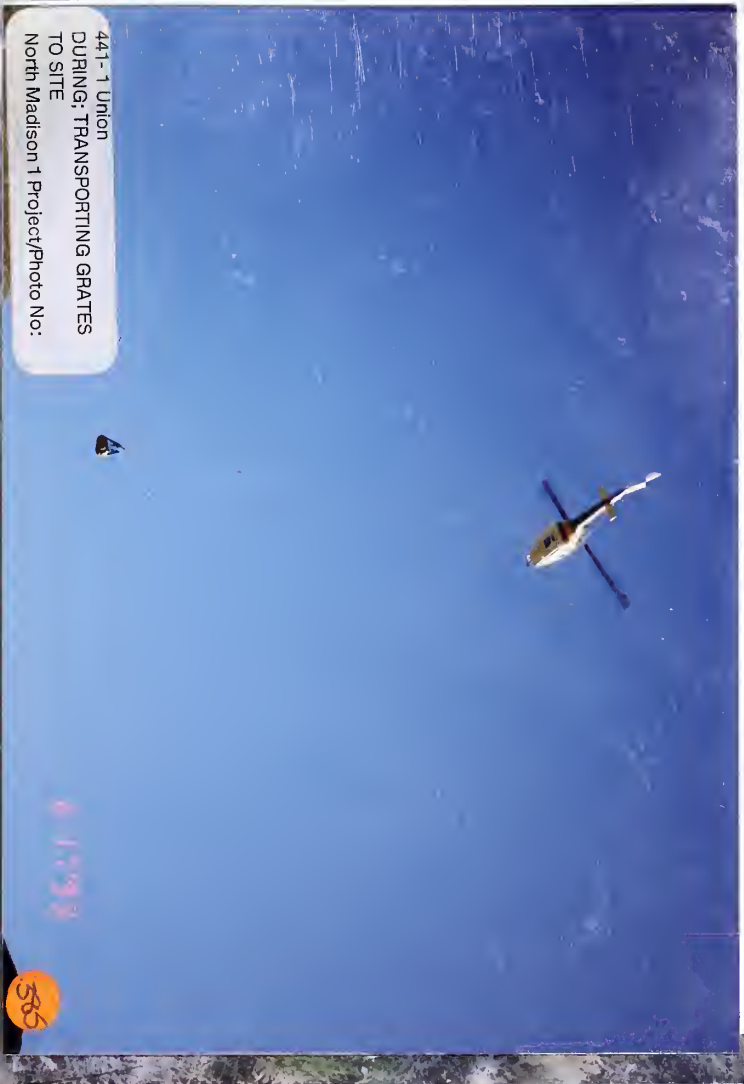


380

441-1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



385



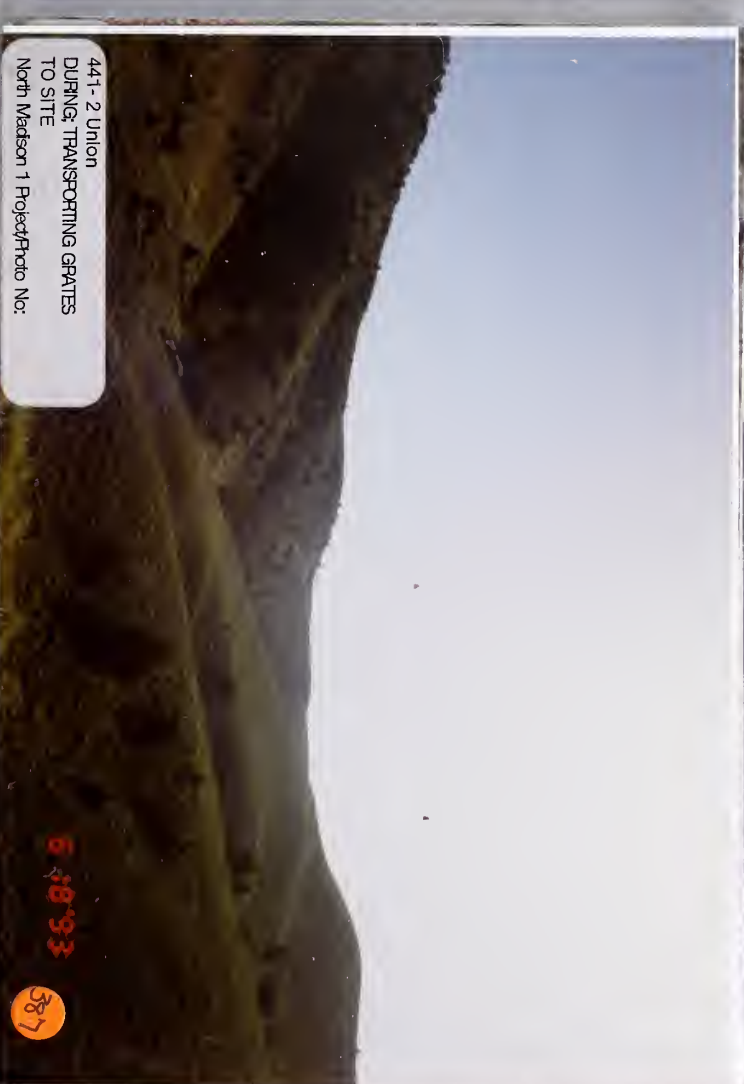
441-1 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



441-2 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



441-2 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



441-2 Union
DURING: TRANSPORTING GRATES
TO SITE
North Madison 1 Project/Photo No:



441-1 Union
Complete grate, 10' W
North Madison I Project/Photo No.:



441-2 Union
Complete grate, 15' W
North Madison I Project/Photo No.:



441-3 Union
DURING: 25' E OF ADIT
North Madison I Project/Photo No.:



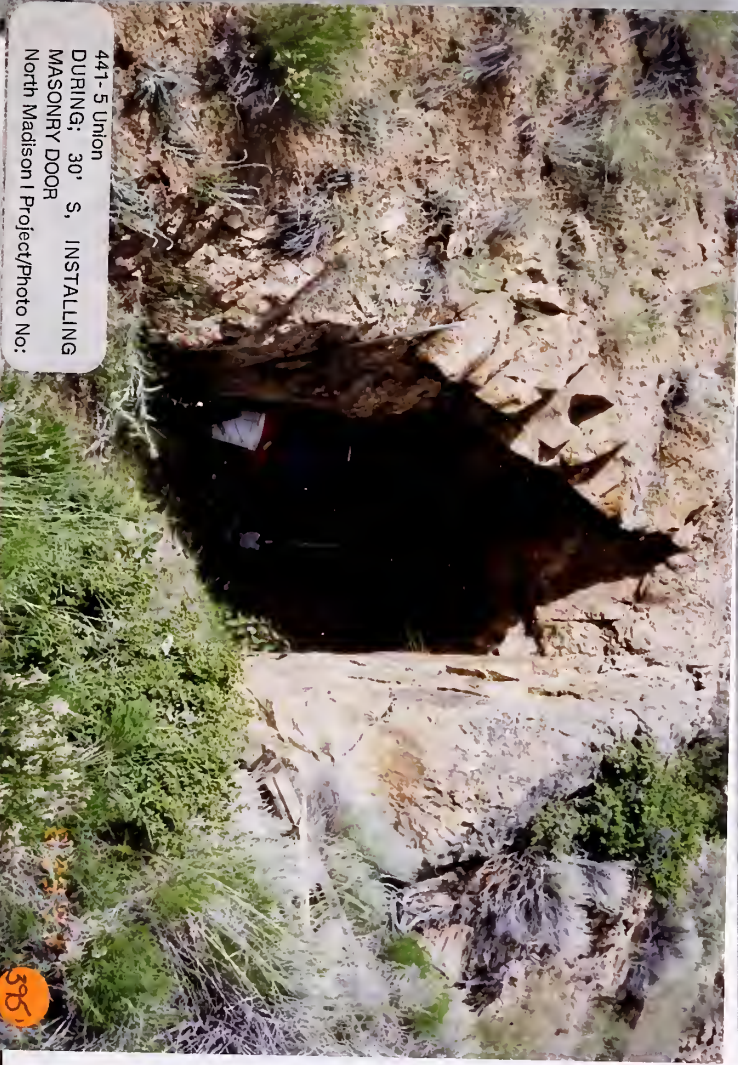
Northern Madison I/Tidal Wave
Union/441-3
Before, 15' east of opening



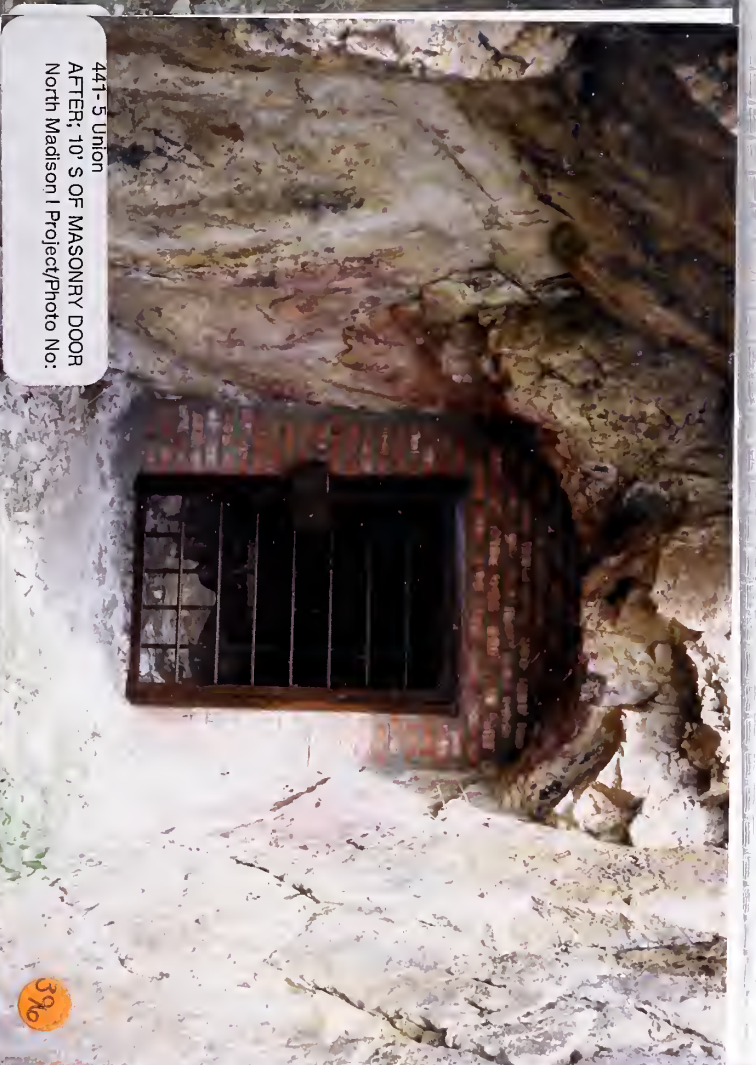
Northern Madison I/Tidal Wave
Union/441-5
Before, 20' south of opening



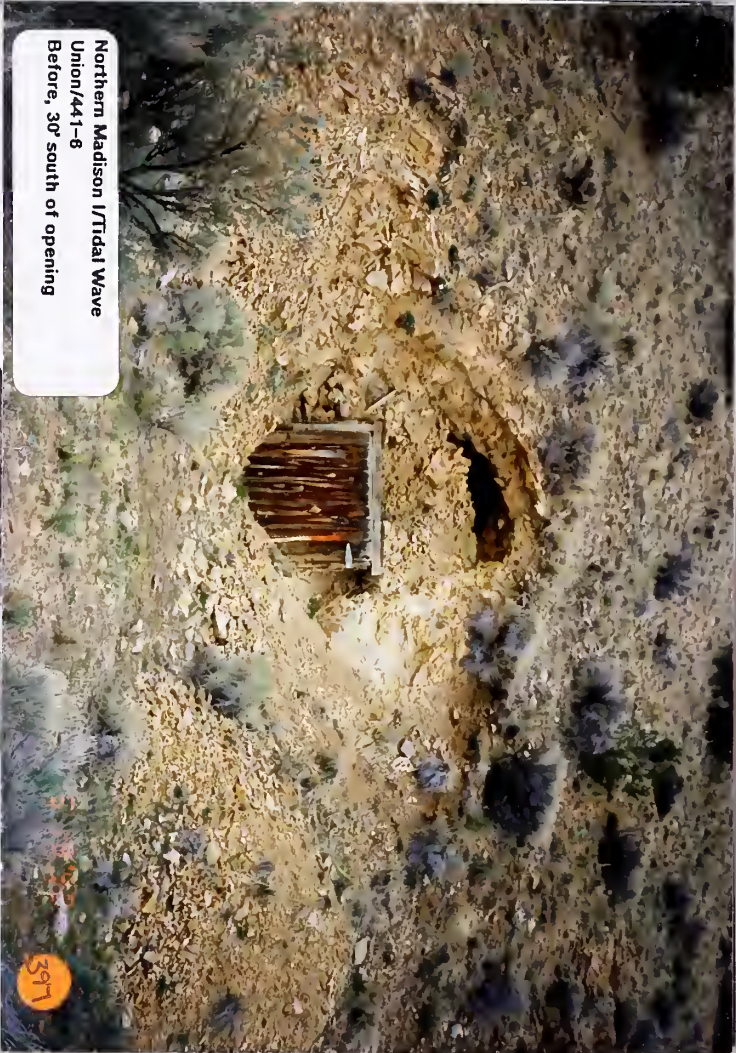
441-3 Union
AFTER: 25' E OF INSTALLED
CULVERT
North Madison I Project/Photo No:



441-5 Union
DURING: 30' S, INSTALLING
MASONRY DOOR
North Madison I Project/Photo No:



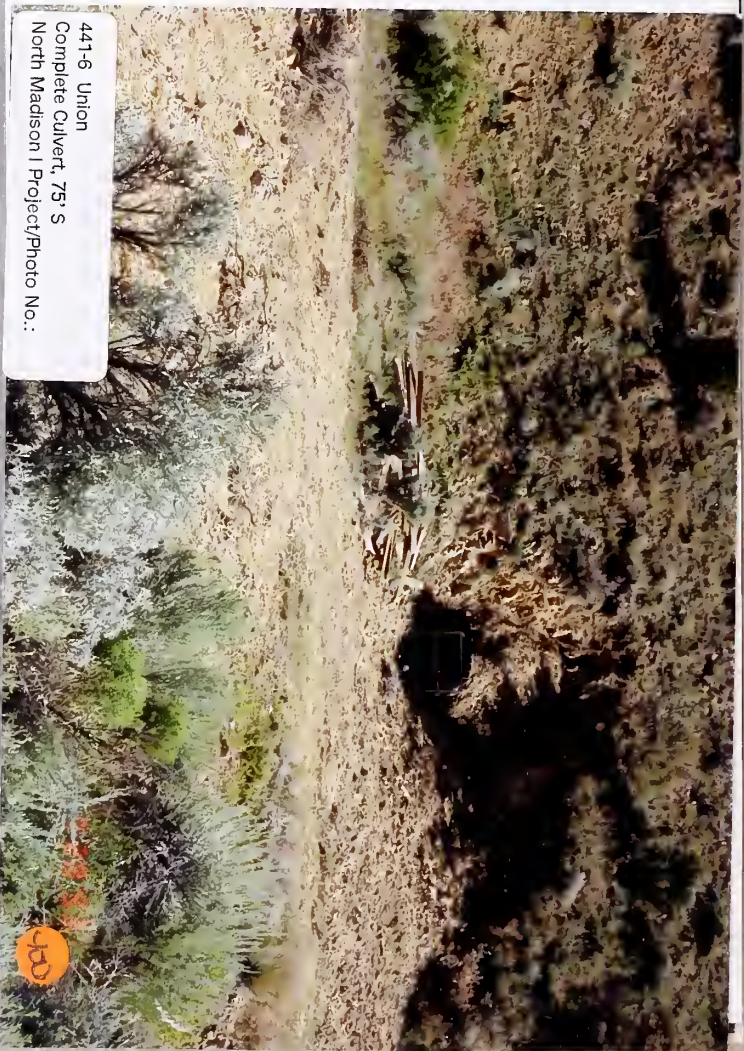
441-5 Union
AFTER: 10' S OF MASONRY DOOR
North Madison I Project/Photo No:



Northern Madison I/Tidal Wave
Union/441-8
Before, 30' south of opening



441-6 Union
DURING: 50' S OF ADIT
North Madison I Project/Photo No:



441-6 Union
Complete Culvert, 75' S
North Madison I Project/Photo No.:



441-6 Union
DURING: 50' S OF ADIT
North Madison I Project/Photo No:



Northern Madison I/Sheridan
Buckeye/451-1
Before, 15' S of opening

401



Northern Madison I/Sheridan
Buckeye/451-2
Before, 15' W of opening

404



451-1 Buckeye
DURING: 50' S OF ADIT, BACKFILLING
North Madison I Project//Photo No:

400



451-1 Buckeye
AFTER: 30' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:

403



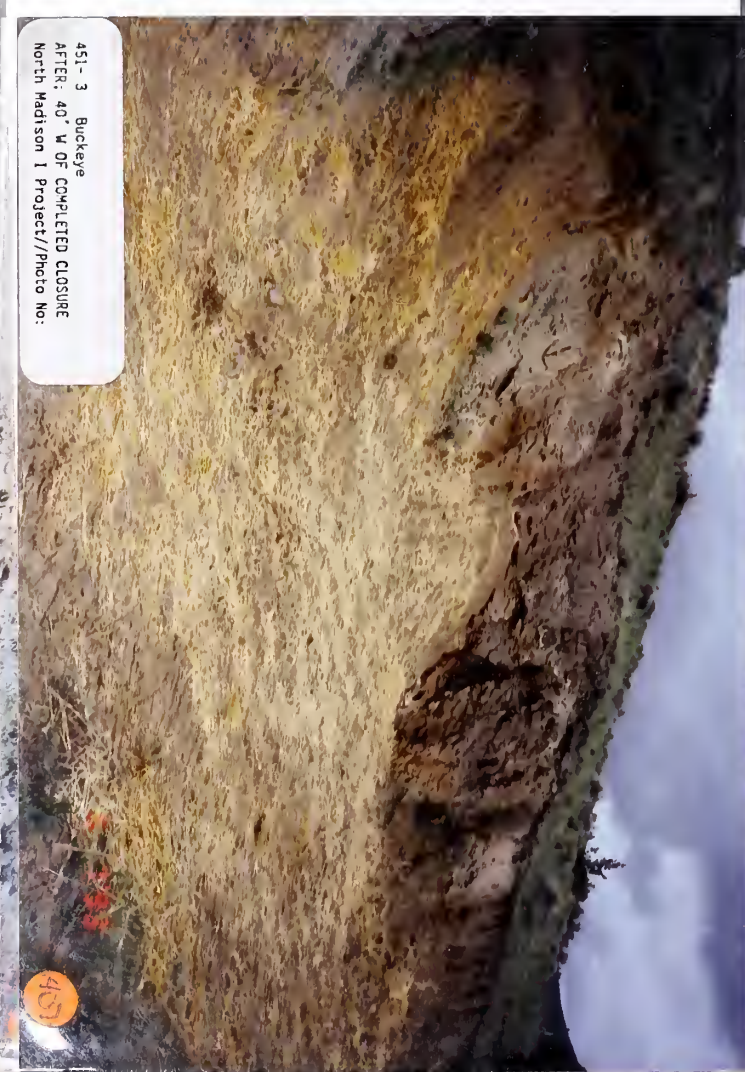
451 - 2 Buckeye
AFTER: 30' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:



North Madison I/Sheridan
Buckeye/451-3
Before, 10' W of opening



Northern Madison I/Sheridan
Buckeye/451-4
Before, 20' W of opening

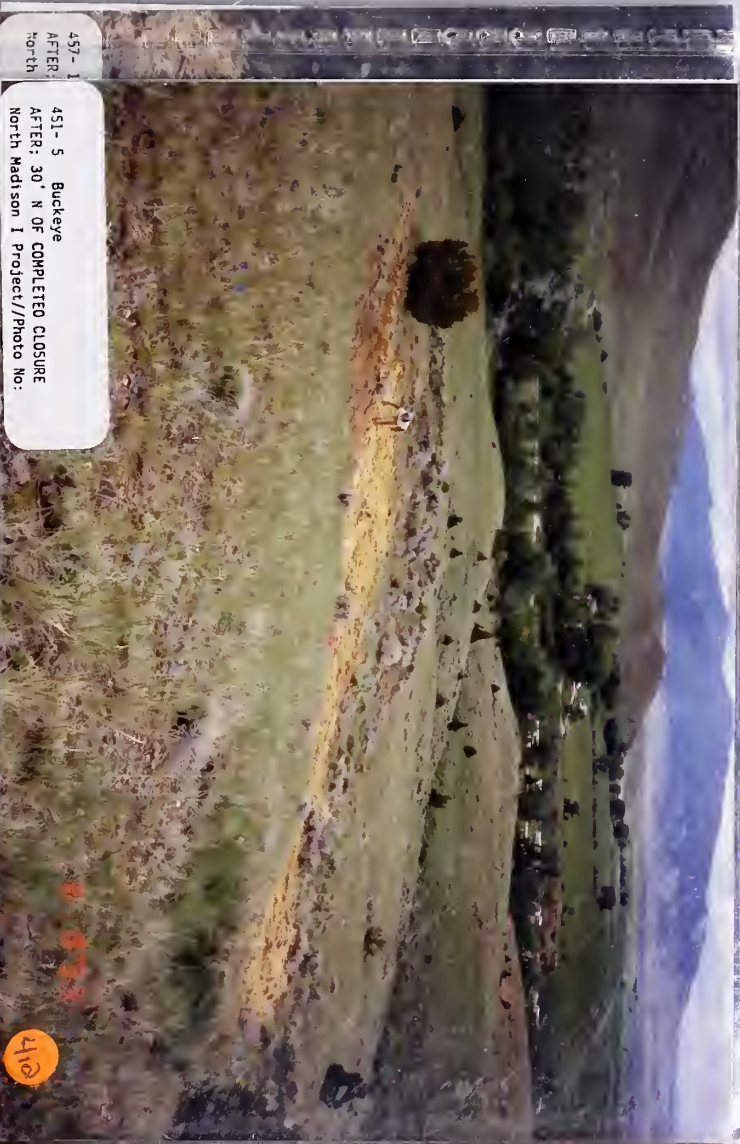


451 - 3 Buckeye
AFTER: 40' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:



451- 4 Buckeye
DURING: 75' W OF ADIT
North Madison I Project//Photo No:

459



457- 1
AFTER:
451- 5 Buckeye
AFTER: 30' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:

410



451- 4 Buckeye
AFTER: 50' W OF ADIT
North Madison I Project//Photo No:

410



Northern Madison I/Sheridan
Buckeye/451-5
Before, 10' S of opening

411



Northern Madison I/Sheridan
Buckeye/451-8
Before, 10' W of opening



451- 6 Buckeye
AFTER, 50' W OF COMPLETED CLOSURE
North Madison I Project//Photo No.:



451- 7 Buckeye
AFTER, 30' W OF COMPLETED CLOSURE
North Madison I Project//Photo No.:

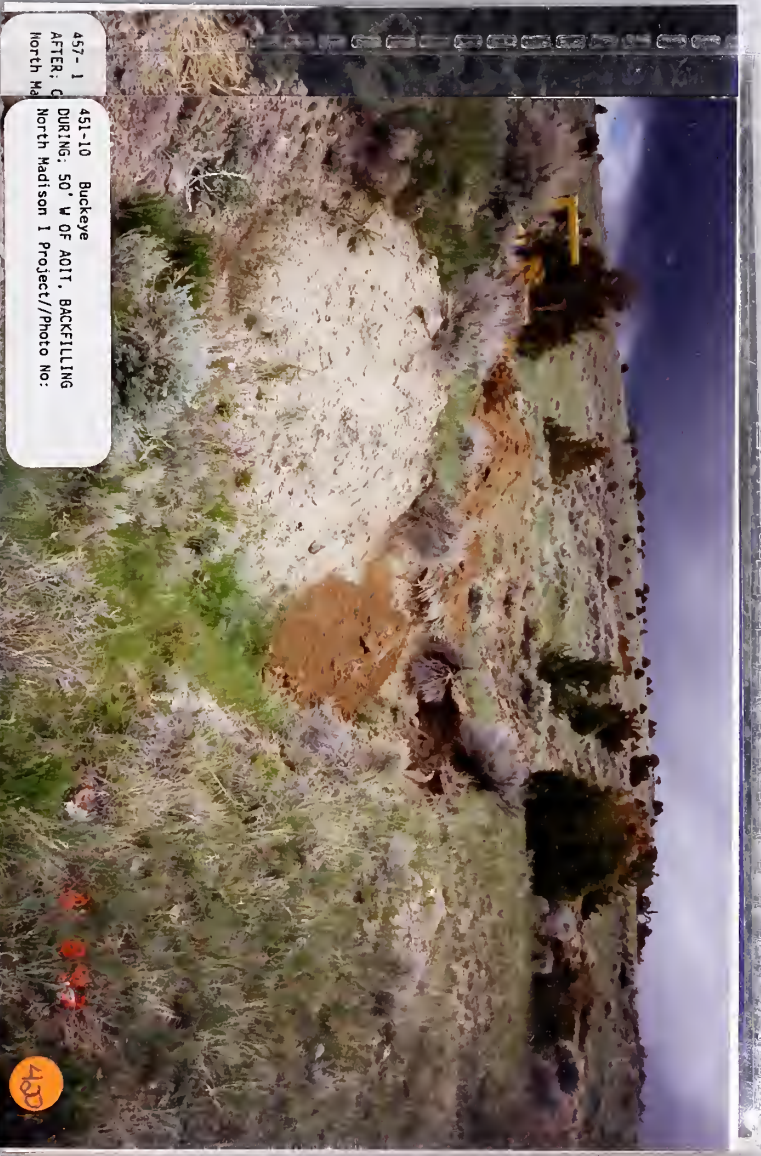


Northern Madison I/Sheridan
Buckeye/451-7
Before, 5' S of opening



Northern Madison I/Sheridan
Buckeye/451-8
Before, south edge of shaft

417



451-10 Buckeye
DURING: 50' W OF A011, BACKFILLING
AFTER: G
North Madison I Project//Photo No:

430



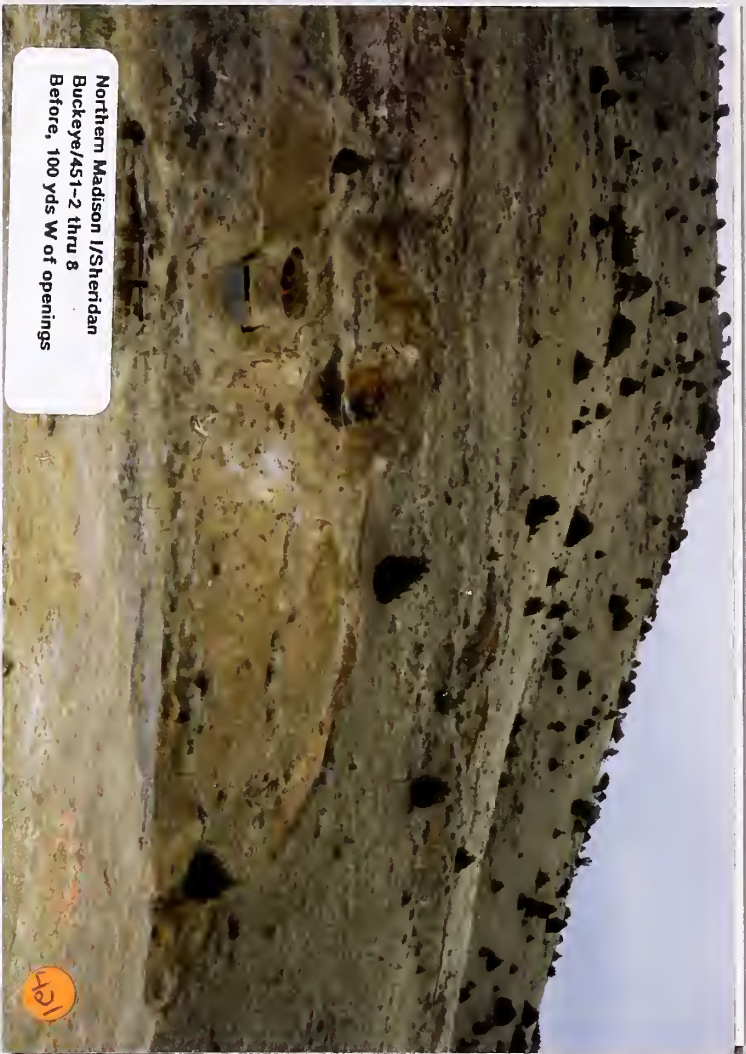
451-8 Buckeye
DURING: 20' N OF SHAFT, BACKFILLING
North Madison I Project//Photo No:

418



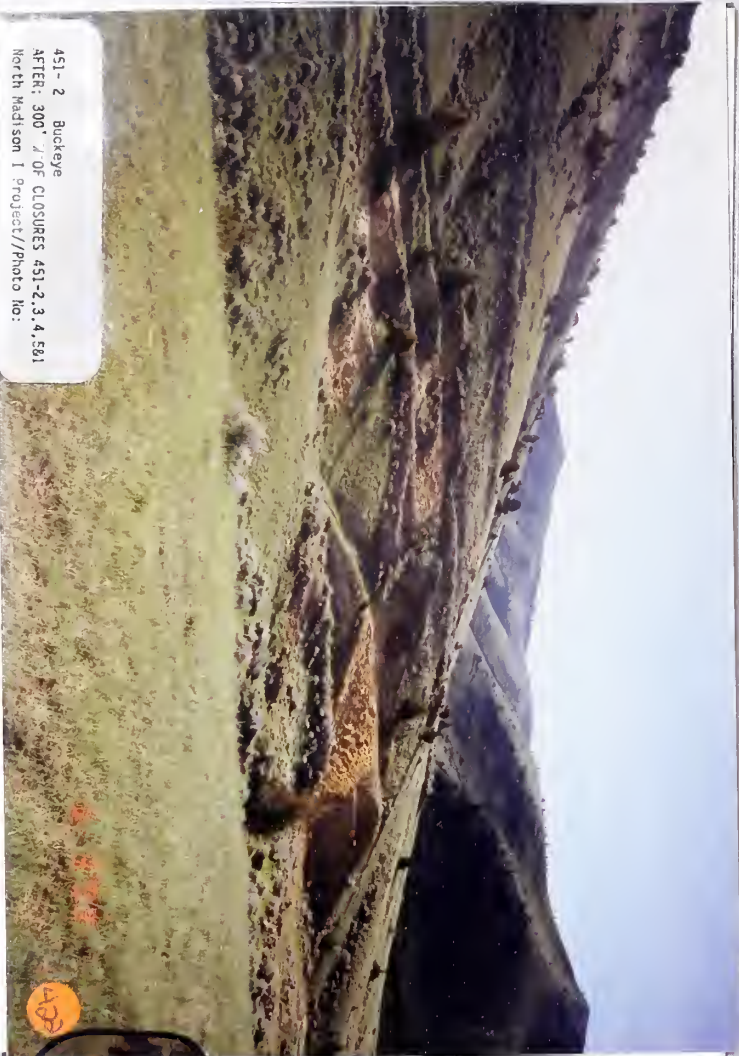
451-8 Buckeye
AFTER: 40' N OF COMPLETED CLOSURE
North Madison I Project//Photo No:

419



Northern Madison I/Sheridan
Buckeye/451-2 thru 8
Before, 100 yds W of openings

451



451- 2 Buckeye
AFTER: 300' / OF CLOSURES 451-2,3,4,5&1
North Madison I Project//Photo No:

451



453- 1 Brandon II
AFTER: 30' W OF CLOSURE
North Madison I Project//Photo No:

453

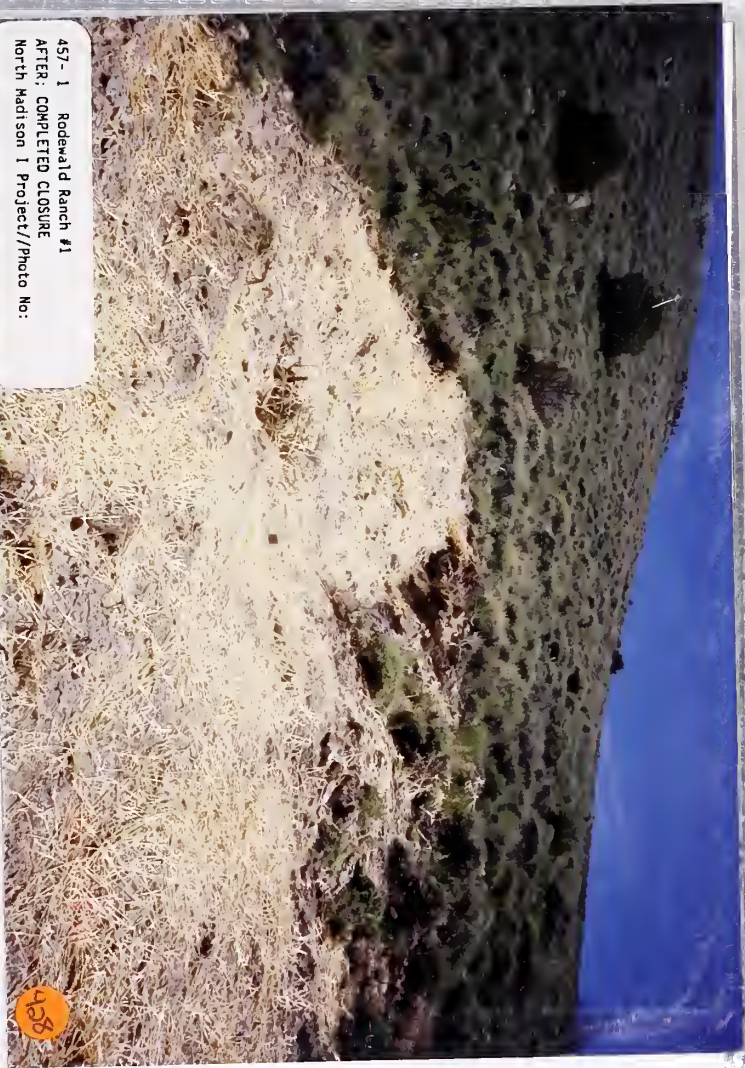


Northern Madison I/Sheridan
Brandon II/453-1
Before, 15' S of opening

453



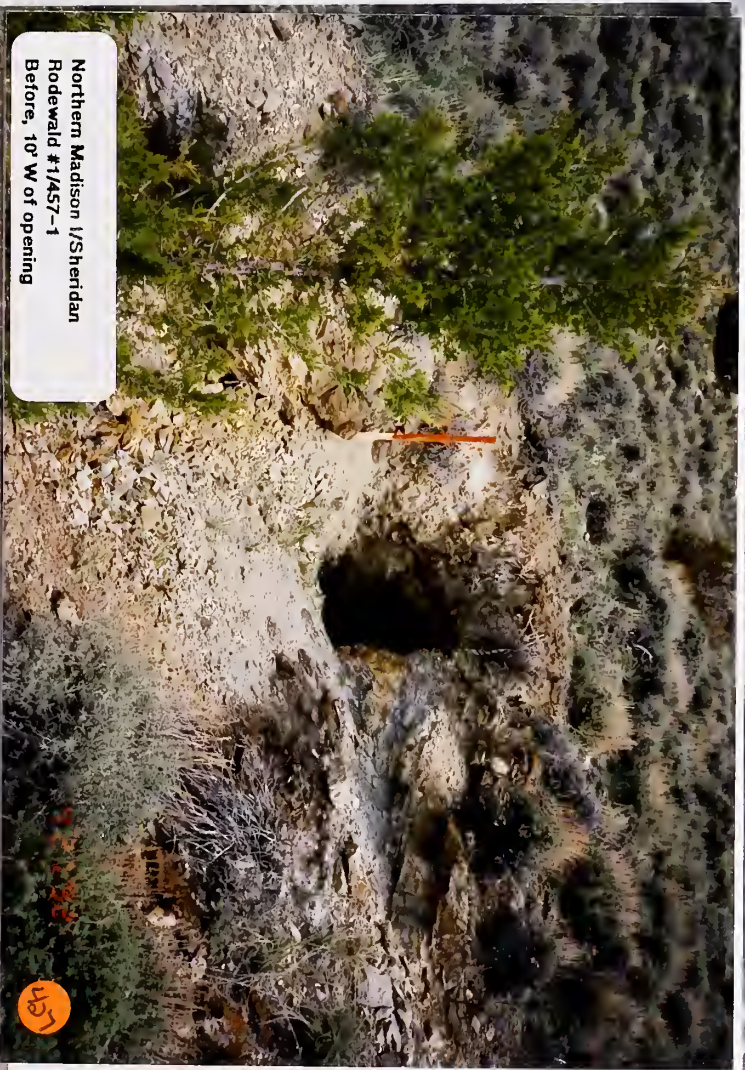
Northern Madison I/Shenidan
Flamm Ranch #2/456-4
Before, 30' S of opening



457 - 1 Rodewald Ranch #1
AFTER: COMPLETED CLOSURE
North Madison I Project//Photo No:



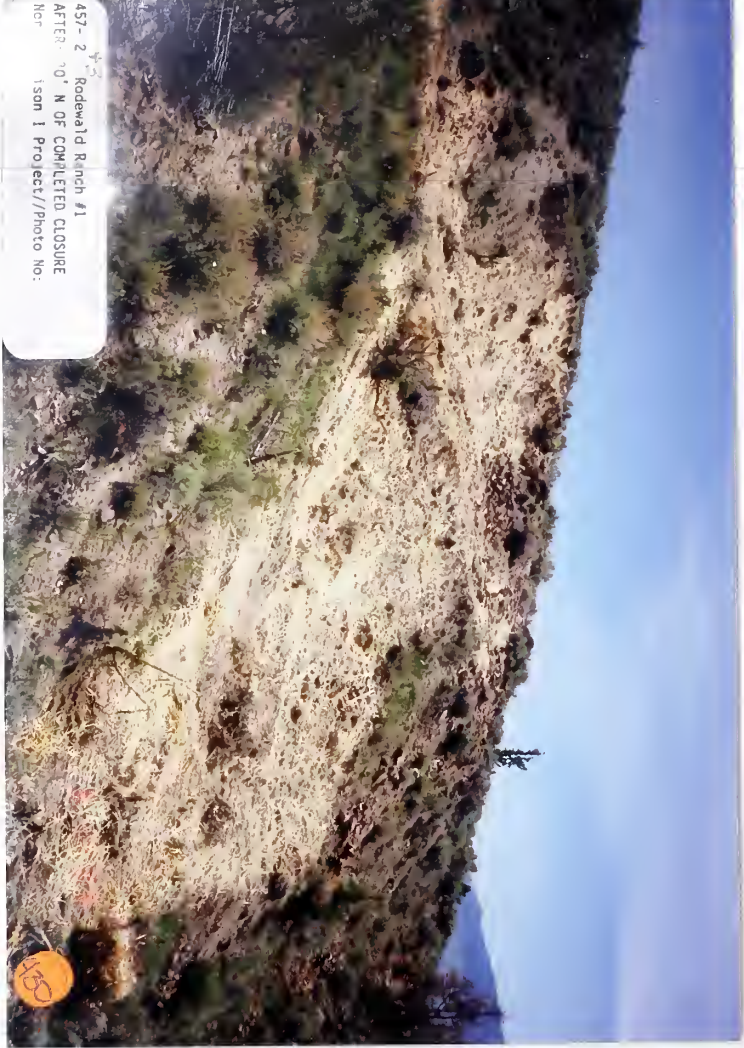
456-4 Flamm Ranch #2
AFTER: 15' S OF ADIT CULVERT
North Madison I Project//Photo No:



Northern Madison I/Shenidan
Rodewald #1/457-1
Before, 10' W of opening



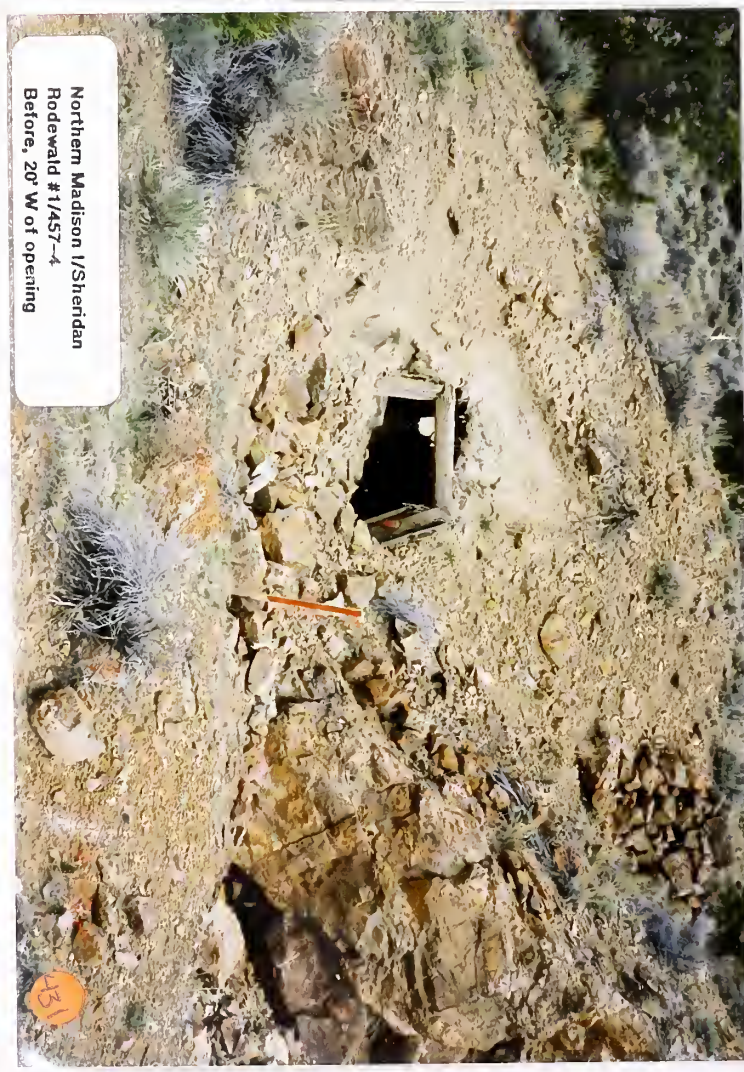
Northern Madison I/Sheridan
Rodewald #1/457-2,3
Before, 70' N of opening



457-2 Rodewald Ranch #1
AFTER: 70' N OF COMPLETED CLOSURE
Northern Madison I Project//Photo No.:



Northern Madison I/Sheridan
Rodewald #1/457-5
Before, 5' S of opening

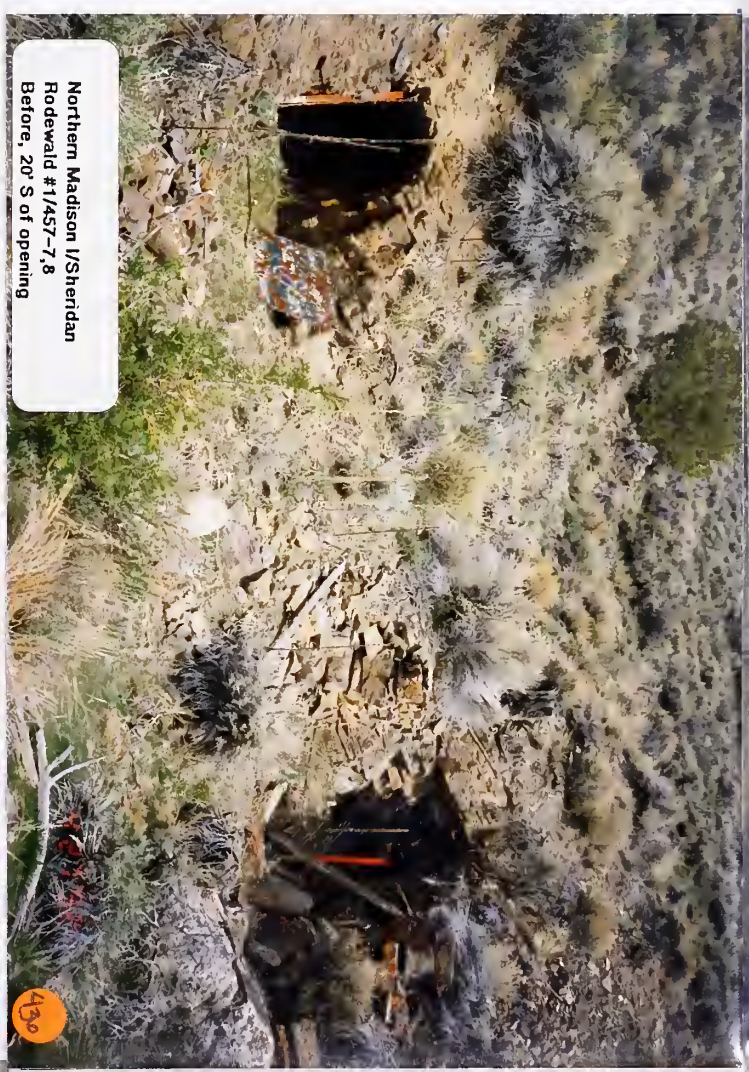


Northern Madison I/Sheridan
Rodewald #1/457-4
Before, 20' W of opening



457- 4 Rodewald Ranch #1
DURING: 50' W OF ADIT TRENCH
North Madison I Project//Photo No:

433



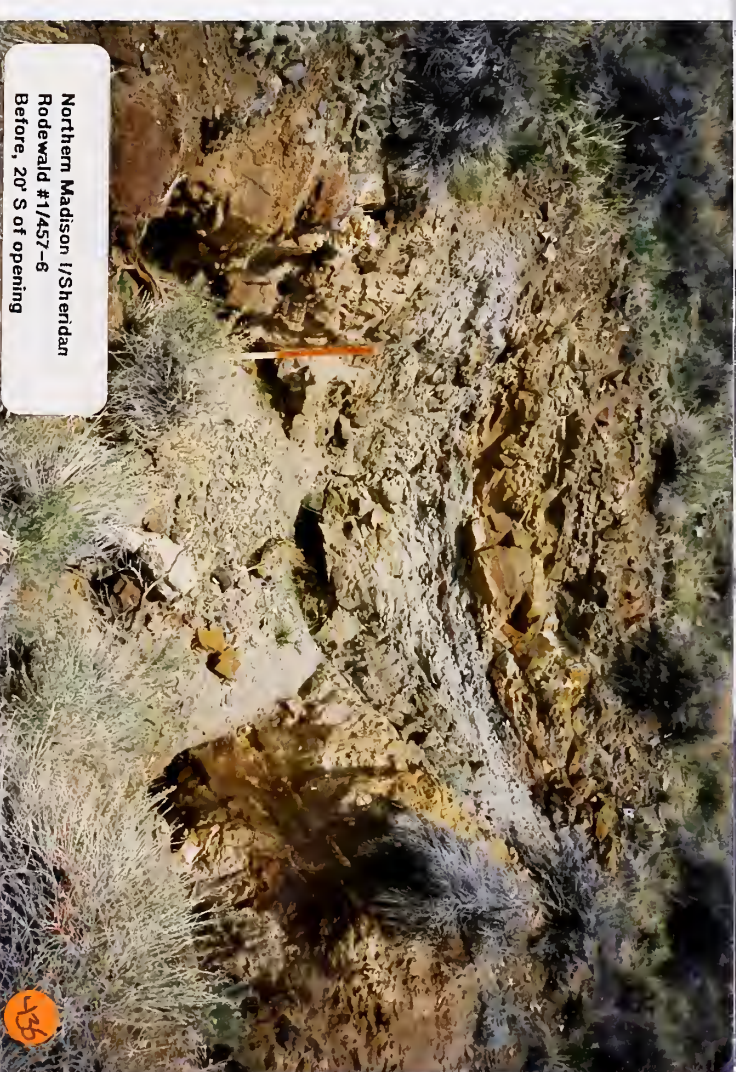
Northern Madison I/Sheridan
Rodewald #1/457-7, 8
Before, 20' S of opening

430



457- 4 Rodewald Ranch #1
AFTER: 40' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:

434



Northern Madison I/Sheridan
Rodewald #1/457-8
Before, 20' S of opening

435



437- 6 / Rodewald Ranch #1
AFTER: 5' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:

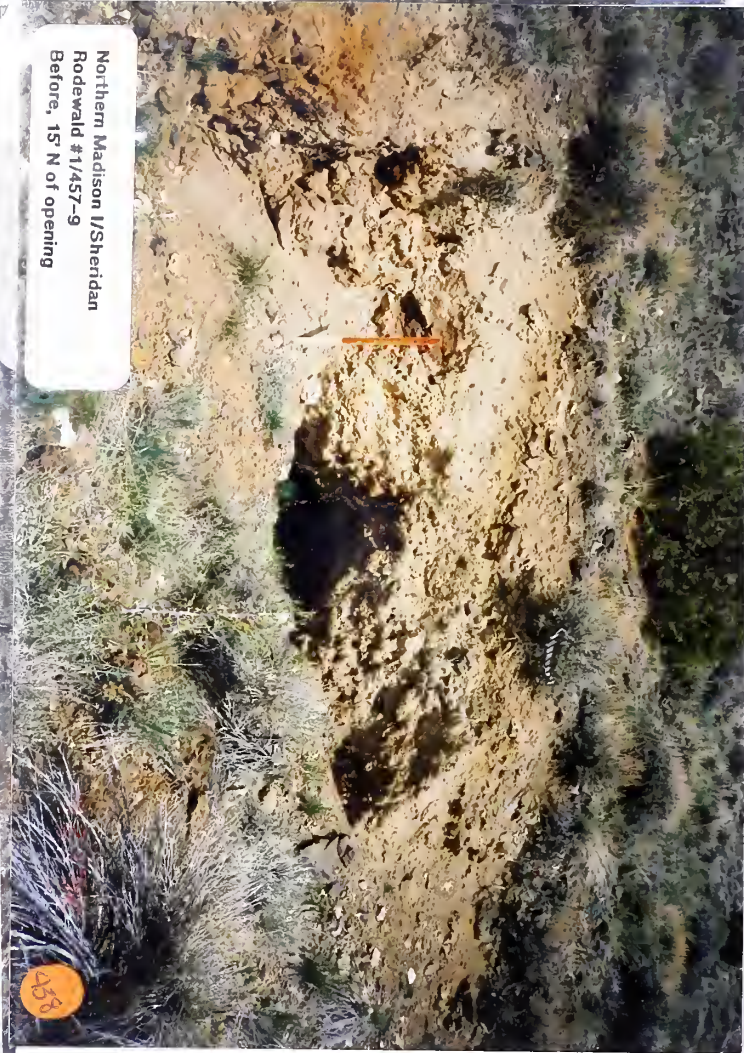
1+8

438



437- 9 Rodewald Ranch #1
AFTER: 15' S OF COMPLETED SEAL
North Madison I Project//Photo No:

439



Northern Madison I/Sheridan
Rodewald #1/437-9
Before, 15' N of opening

439



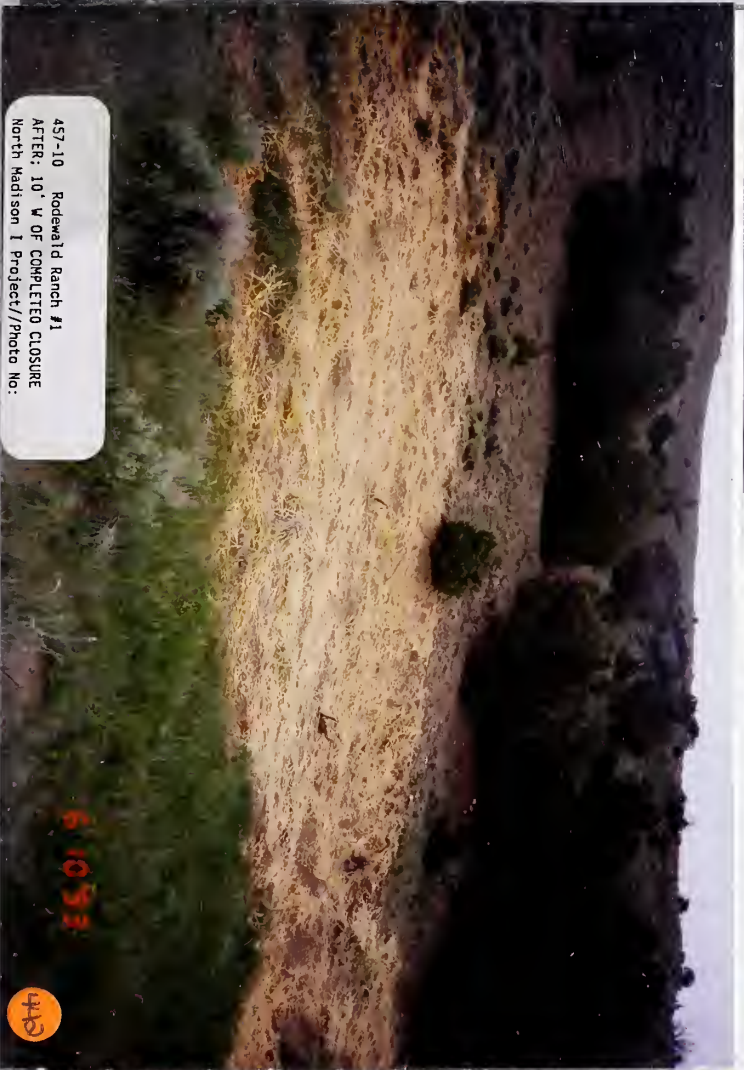
437- 9 Rodewald Ranch #1
DURING: 20' S OF ADIT
North Madison I Project//Photo No:

439



Northern Madison I/Sheridan
Rodewald #1/457-10
Before, 20' S of opening

441



457-10 Rodewald Ranch #1
AFTER, 10' W OF COMPLETED CLOSURE
North Madison I Project//Photo No:

61053

440



Northern Madison I/Sheridan
Rodewald #2/458-1
Before, 5' N of opening

444



457-11 Rodewald Ranch #1
AFTER, 25' S OF COMPLETED CLOSURE
North Madison I Project//Photo No:

443

458- 1 Redewald Ranch #2
AFTER: 100' W OF COMPLETED CLOSURE
with Madison 1 Project//Photo No:



457
AFT
NOT

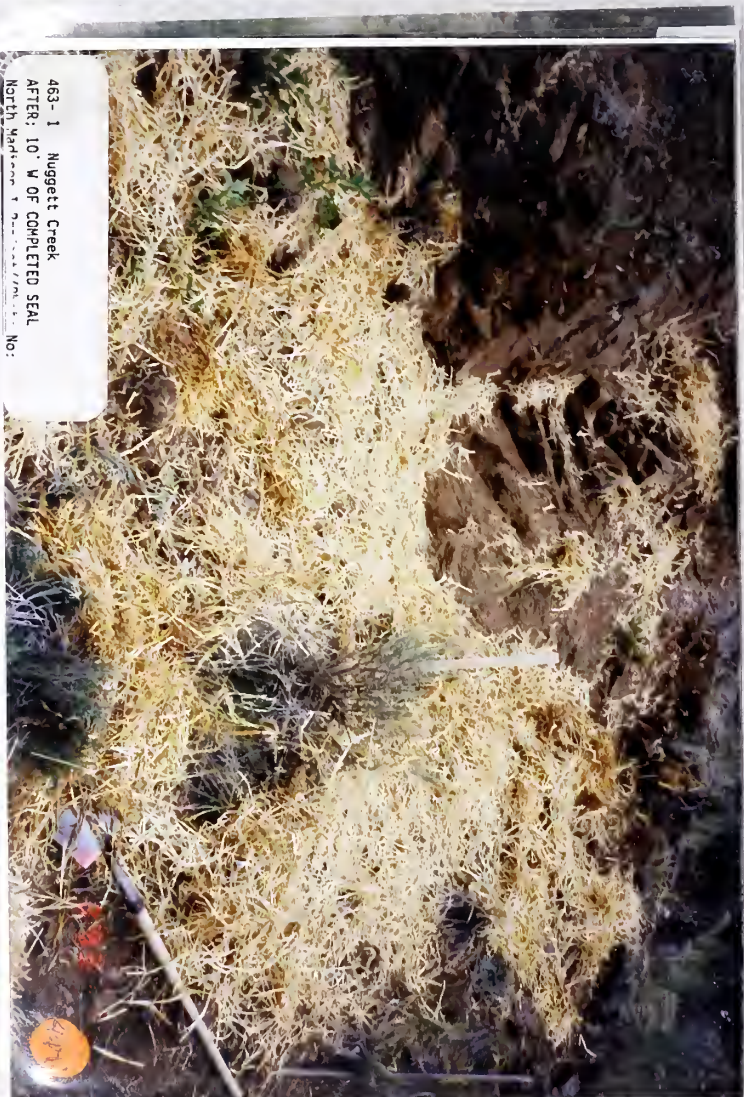
Northern Madison I/Tidal Wave
Nuggett Creek/463-2
Before, 10' S of opening



Northern Madison I/Tidal Wave
Nuggett Creek/463-1
Before, 5' W of opening



463- 1 Nuggett Creek
AFTER: 10' W OF COMPLETED SEAL
North Madison 1 Project//Photo No:

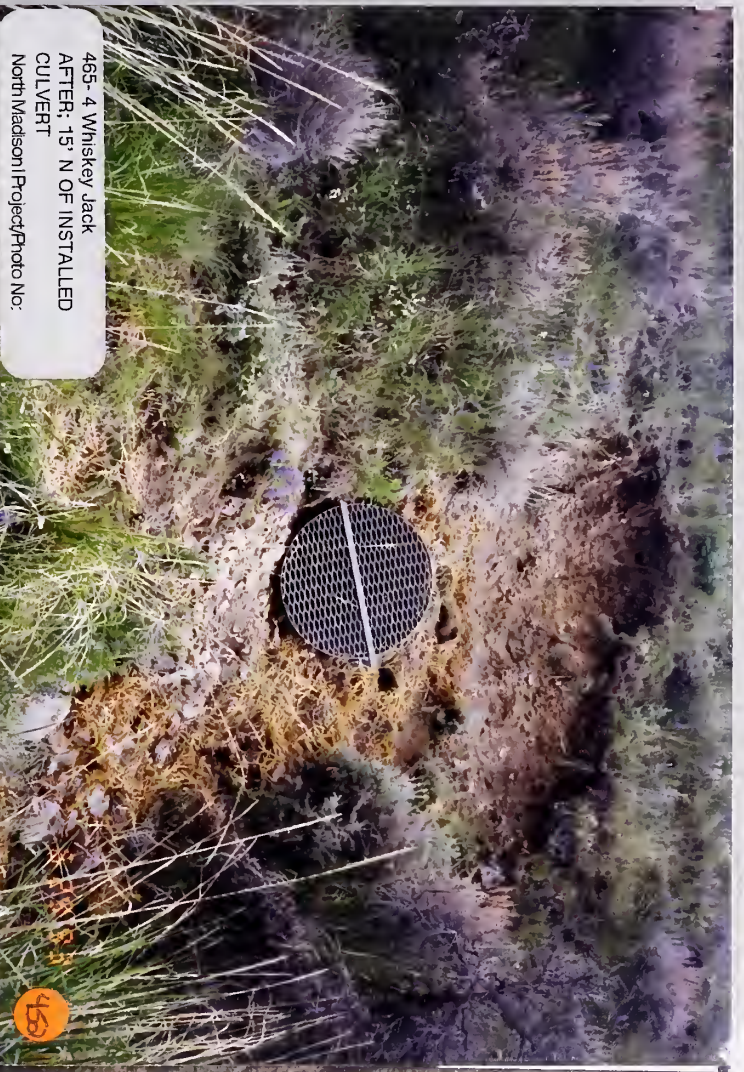




463- 2 Nuggett Creek
AFTER: 10' S OF COMPLETED SEAL
North Madison I Project/Photo No:



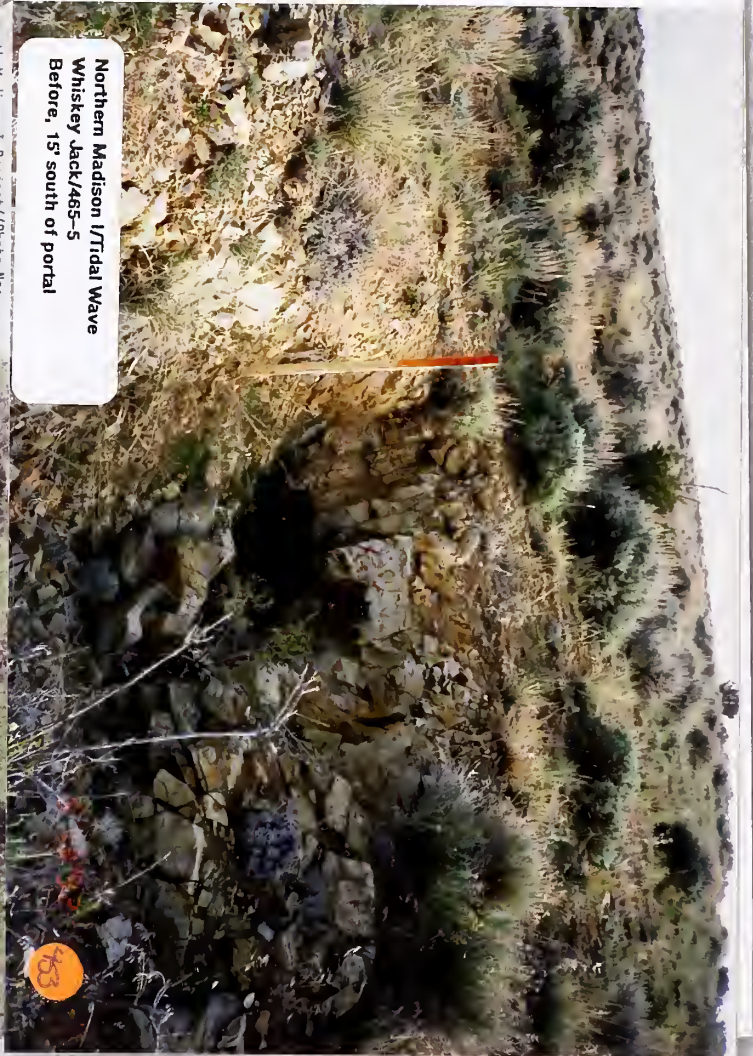
Northern Madison I/Tidal Wave
Whiskey Jack/465-4
Before, 20' north of portal



465- 4 Whiskey Jack
AFTER: 15' N OF INSTALLED
CULVERT
North Madison I Project/Photo No:



466- 4 Whiskey Jack
DURING: 15' W OF ADIT, INSTALL
CULVERT
North Madison I Project/Photo No:



Northern Madison I/Tidal Wave
Whiskey Jack/485-5
Before, 15' south of portal

North Madison I Project/Photo No:



485-5 Whiskey Jack
DURING: 5' S OF ADIT, INSTALLING
CULVERT

North Madison I Project/Photo No:



Northern Madison I/Tidal Wave
Whiskey Jack/485-6
Before, 20' south of portal

485-5
ADIT
NOR



485-5 Whiskey Jack
AFTER: 10' W OF INSTALLED
CULVERT

North Madison I Project/Photo No:



465- 6 Whiskey Jack
AFTER; 25' S OF ADIT, CULVERT
INSTALLED
North Madison Project/Photo No:

465



Northern Madison I/Tidal Wave
Kentucky/466-1
Before, 20' east of portal

466



Northern Madison I/Tidal Wave
Kentucky/466-3
Before, 20' east of portal

466



466-1 Kentucky
AFTER; 20' E OF ADIT CULVERT
North Madison I Project/Photo No:

466

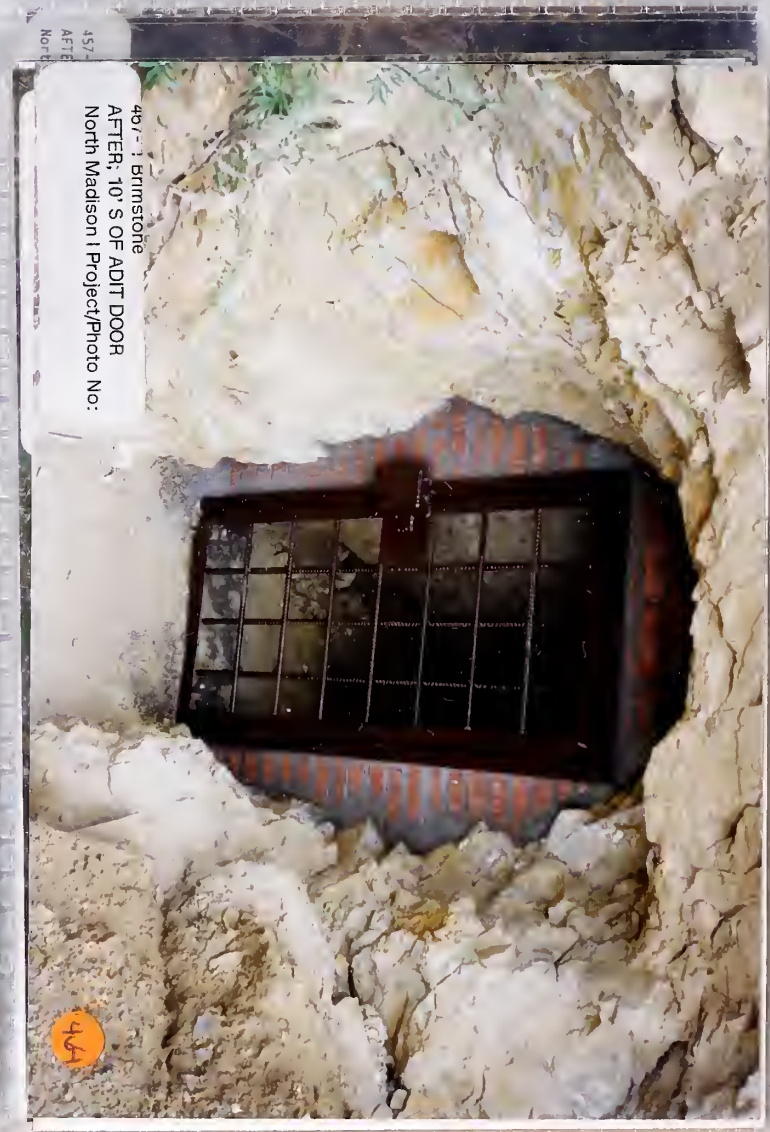
466-3 Kentucky
AFTER; 15' E OF CULVERT
North Madison I Project//Photo No:



466-3 Kentucky
AFTER; 10' E OF CULVERT
North Madison I Project//Photo No:



457-1 Kentucky
AFTER; 10' S OF ADIT DOOR
North Madison I Project//Photo No:



Northern Madison I/Tidal Wave
Brimstone/467-1
Before, 20' south of opening





467 - 8 Brimstone
AFTER: 5' E OF INSTALLED
CULVERT:
North Madison | Project/Photo No:



Northern Madison I/Tidal Wave
Brimstone/467-8
Before, 5' east of opening



Northern Madison I/Tidal Wave
Brimstone/467-9
Before, 15' east of opening



467 - 9 Brimstone
AFTER: 10' E OF INSTALLED
CULVERT
North Madison | Project/Photo No:

467-10 Tidal Wave
Brimstone complete 10' E
North Madison I Project/Photo No:



467



Northern Madison I/Tidal Wave
Brimstone/467-10
Before, 10' east of opening

468



Northern Madison I/Tidal Wave
Brimstone/467-11
Before, 5' east of opening

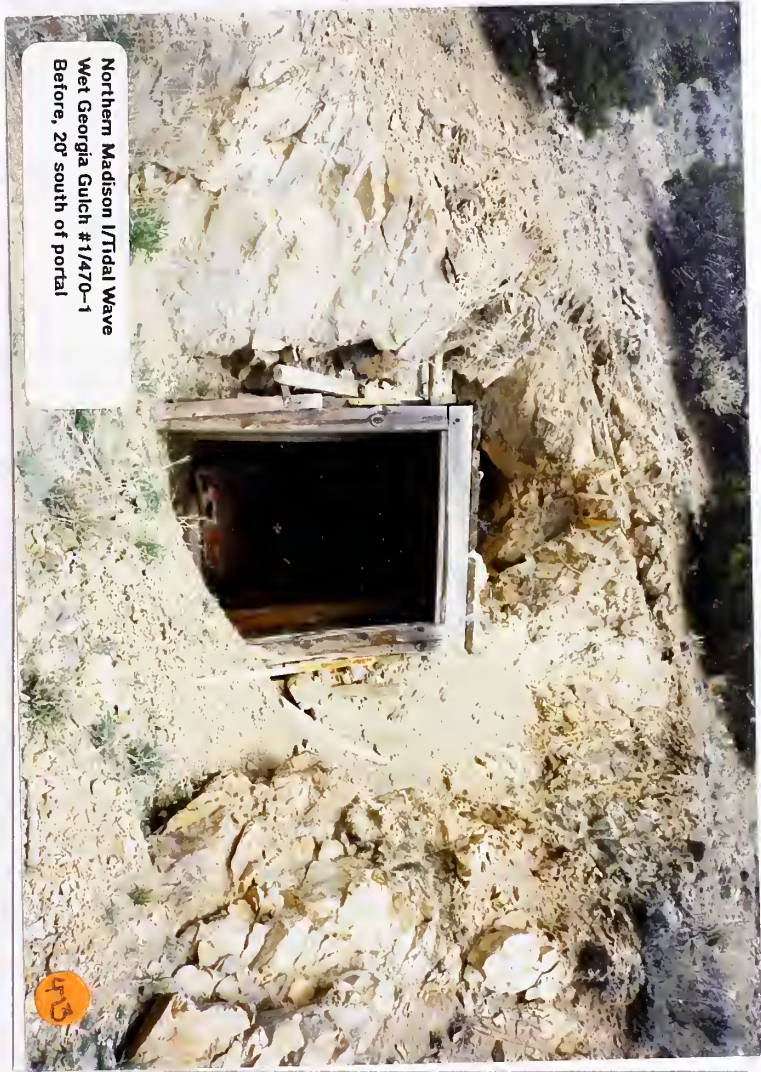
5.13.94

467



467-11 Tidal Wave
Brimstone complete, 10' E
North Madison I Project/Photo No:

468



Northern Madison I/Tidal Wave
Met Georgia Gulch #1/470-1
Before, 20' south of portal

470



470-1 Tidal Wave
Met Georgia Gulch complete, 5' S
North Madison I Project/Photo No:

471



474-1 Varmeter
DURING: 10' S OF ADIT
North Madison I Project//Photo No:

5 3'9 3

476

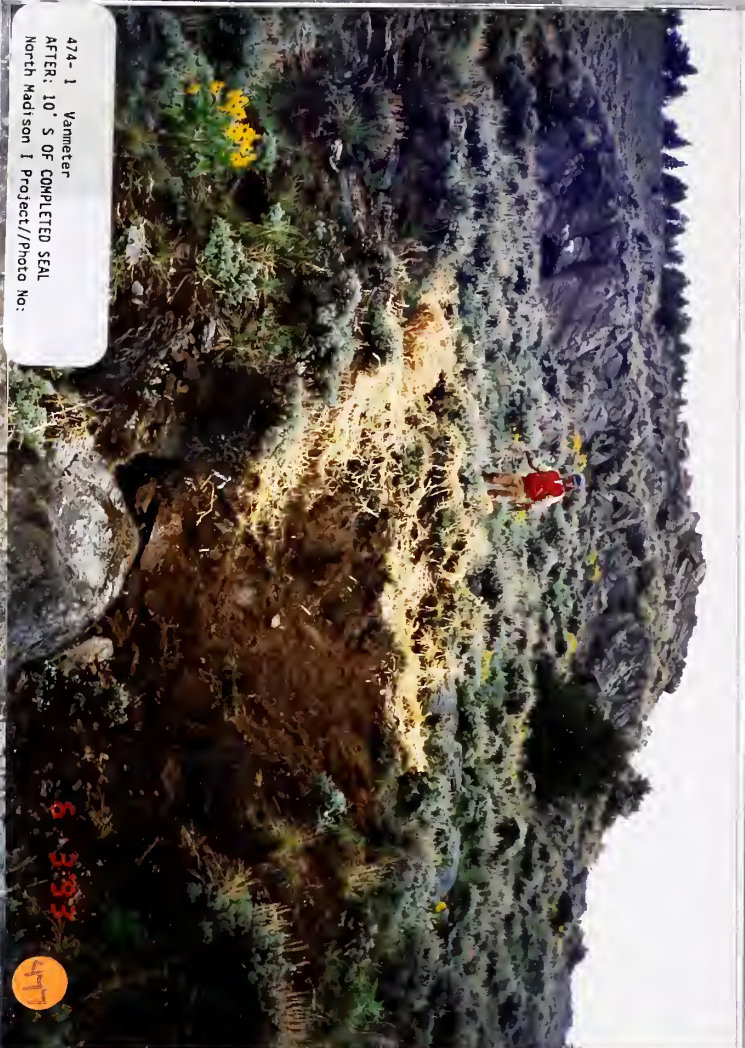


Northern Madison I/Tidal Wave
Volunteer/474-1
Before, 15' S of opening

478

476

SEATTLE FILMWORKS 04MAY92



474- 1 Vannmeter
AFTER: 10' S OF COMPLETED SEAL
North Madison I Project//Photo No:

6-3-92

474



Northern Madison I/Tidal Wave
Volunteer/474-6
Before, 5' E of opening

6-3-92

474



474- 6 Vannmeter
AFTER: 30' W OF COMPLETED SEAL
North Madison I Project//Photo No:

6-3-92

474

